ORDER NO. MD0402036C2

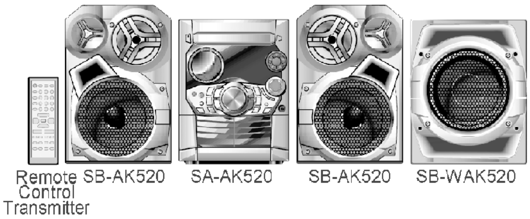
Service Manual

CD Stereo System

SA-AK520E / SA-AK520EB / SA-AK520EG

Colour

(S)... Silver Type


Remote Control Transmitter
SB-AK520
SA-AK520
SB-AK520
SB-WAK520

SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

RMS Power output	
THD 10%, both channels driven	
1 kHz	
(Low channel)	65 W per channel (6 Ω)
10 kHz	
(High channel)	65 W per channel (6 Ω)
80 Hz	
(Subwoofer channel)	160 W per channel (8 Ω)
Total power	420 W (Total)
Input sensitivity	
AUX	250 mV
Input Impedance	
AUX	13.3 kΩ

■ FM TUNER SECTION

Frequency range	
	87.50 - 108.00 MHz (50 kHz steps)
Sensitivity	1.8 μV (IHF)
S/N 26 dB	1.5 μV
Antenna terminal(s)	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	522 - 1629 kHz (9 kHz steps)
Sensitivity	
S/N 20 dB (at 999 kHz)	560 μV/m

■ CASSETTE DECK SECTION

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s (1 7/8 ips)
Overall frequency response (+3 dB, -6 dB at DECK OUT)	
NORMAL (TYPE I)	35 Hz - 14 kHz
S/N	50 dB (A weighted)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

■ CD SECTION

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Pickup	
Beam source/wavelength	Semiconductor laser/780 nm
Number of channels	Stereo
Frequency response	20 Hz - 20 kHz (+1, -2 dB)
Wow and flutter	Below measurable limit

Digital filter	**8 fs**
D/A converter	**MASH (1 bit DAC)**
MP3	
Bit rate	**32 kbps - 320 kbps**
Sampling frequency	**32 kHz, 44.1 kHz, 48 kHz**

■ GENERAL

Power Supply (For E, EG only)	**AC 230V, 50Hz**
Power Supply (For EB only)	**AC 230 - 240 V, 50Hz**
Power consumption	**272 W**
Power Consumption in standby mode	**0.5 W**
Dimensions (W x H x D)	**250 x 330 x 369 mm**
Mass	**8.1 kg**

■ SYSTEM

SC-AK520 (E)	**Music center: SA-AK520 (E)** **Speaker: SB-AK520 (GC)** **Subwoofer: SB-WAK520 (GC)**
SC-AK520 (EB)	**Music center: SA-AK520 (EB)** **Speaker: SB-AK520 (GC)** **Subwoofer: SB-WAK520 (GC)**
SC-AK520 (EG)	**Music center: SA-AK520 (EG)** **Speaker: SB-AK520 (EG)** **Subwoofer: SB-WAK520 (EG)**

Notes:

1. **Specifications are subject to change without notice. Mass and dimensions are approximate.**
2. **Total harmonic distortion is measured by the digital spectrum analyzer.**
3. **The labels “HIGH” and “LOW” on the rear of the speakers refer to High frequency and Low frequency.**

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Caution for AC Mains Lead

(For “EB” area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◇ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

> **CAUTION!**
> IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
> THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

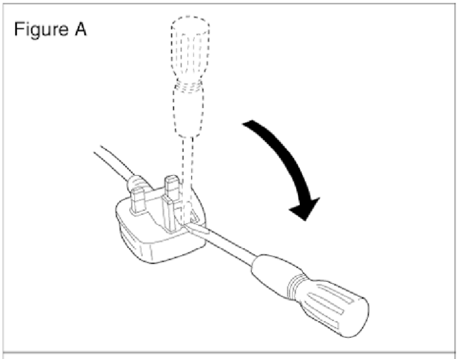
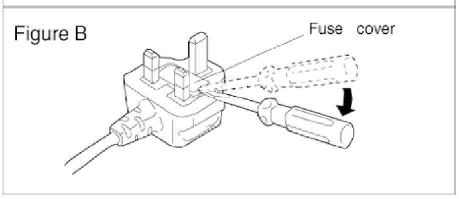


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

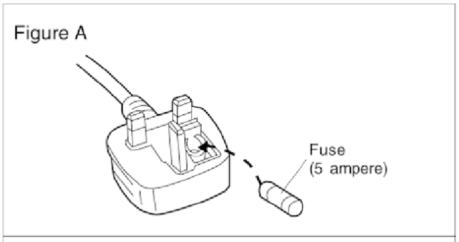
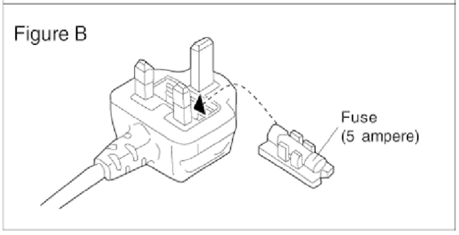


Figure B



2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C520 and C540 through a 10 Ω , 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 230V, 50 Hz in NO SIGNAL mode (volume min at CD mode) should be ~350mA.

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. **Turn off the power.**
2. **Determine the cause of the problem and correct it.**
3. **Turn on the power once again after one minute.**

Note :

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

4. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

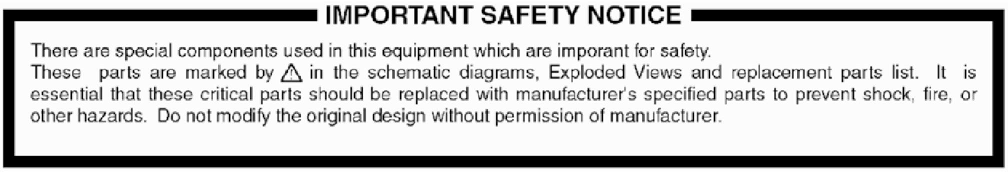
Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).



IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

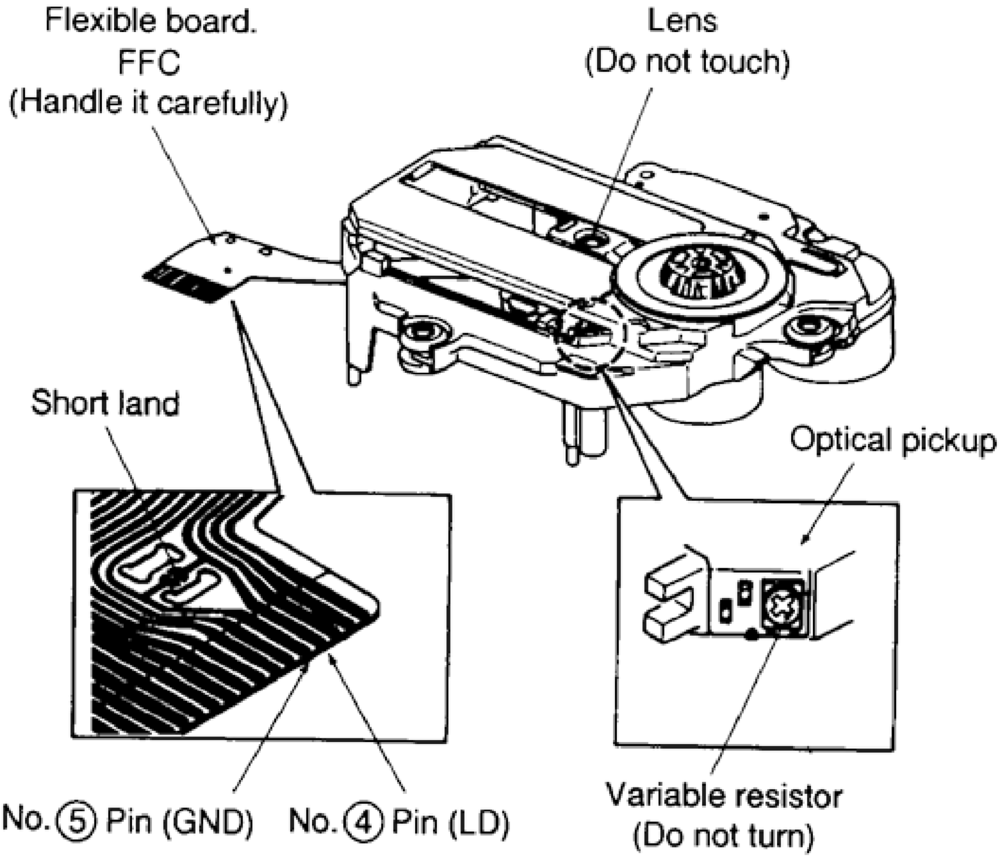
6. Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- Handling of traverse deck (optical pickup)

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode.To connect to the PC board, be sure to open by removing the solder build-up, and finishthe work quickly.**
3. **Take care not to apply excessive stress to the flexible board (FFC).**
4. **Do not turn the variable resistor (laser power adjustment). It has already been adjusted.**

Fig 6-1


Flexible board.
FFC
(Handle it carefully)
Lens
(Do not touch)
Short land
Optical pickup
No.⑤ Pin (GND)
No.④ Pin (LD)
Variable resistor
(Do not turn)

- Grounding for electrostatic breakdown prevention

1. Human body grounding

Use the anti-static wrist strap to discharge the static electricity from your body.

2. Work table grounding

   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

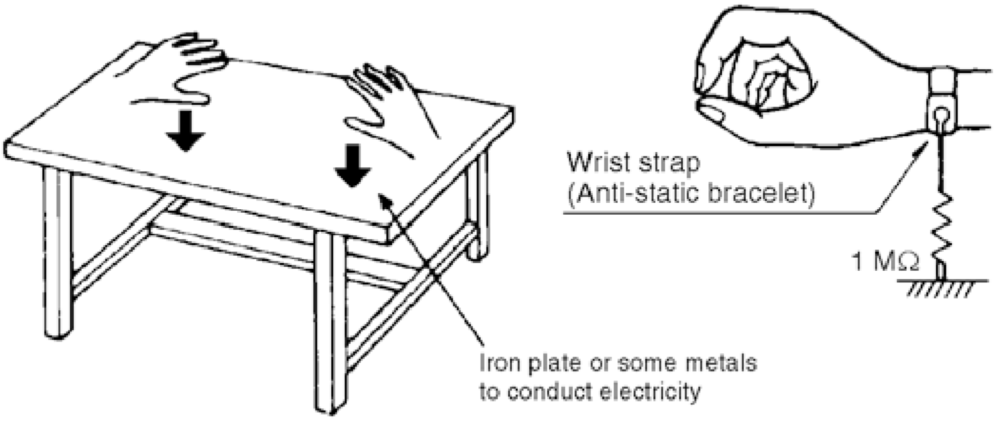
Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when Replacing the Traverse Deck :

The traverse deck has a short point shorted with solder to protect the laser diode against electroststics breakdown. Be sure to remove the solder from the short point before making connections.

Fig 6-2



7. Precaution of Laser Diode

Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens. / Wavelength : 780 nm / Maximum output radiation power from pick up : 100 µ W/VDE / Laser radiation from pick up unit is safety level, but be sure the followings:

1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.

4. **Recommend not to look at pick up lens for a long time.**

ACHTUNG :

Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt. / Wellenlänge : 780nm / Maximale Strahlungsleistung der Lasereinheit :100 μ W/VDE / Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. **Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.**
2. **Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.**
3. **Nicht mit optischen Instrumenten in die Fokussierlinse blicken.**
4. **Nicht über längere Zeit in die Fokussierlinse blicken.**

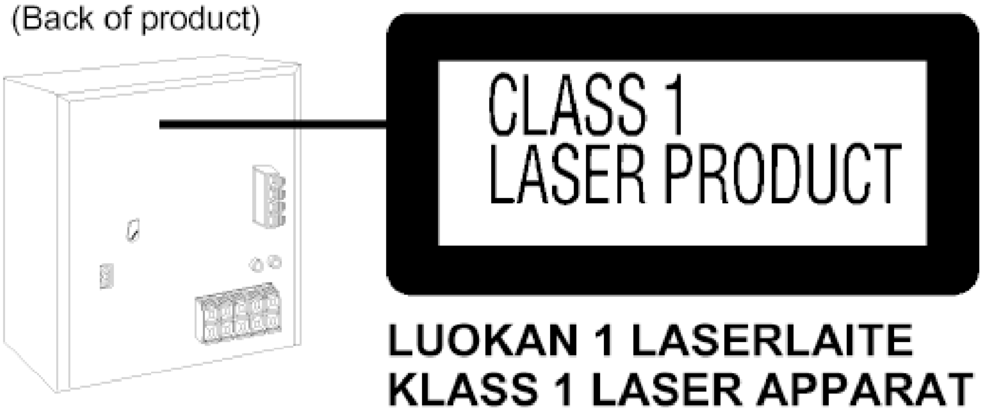
ADVARSEL: I dette a apparat anvendes laser.

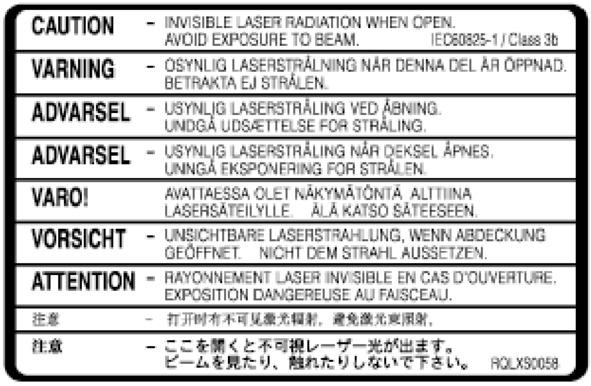
CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THO SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ Use of caution label



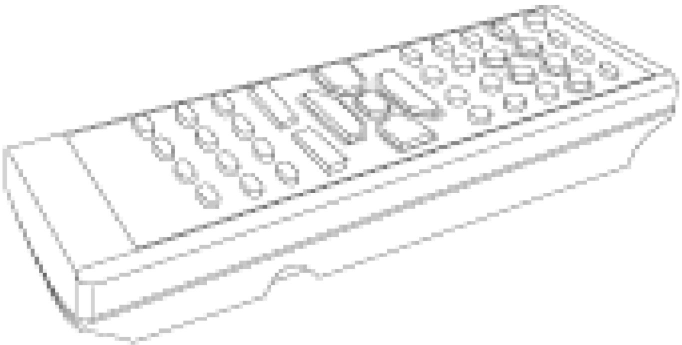


CAUTION	–	INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b
VARNING	–	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	–	USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	–	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO!		AVATTAESSA OLET NÄKYMÄTÖNTÄ ALTTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	–	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	–	RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
注意	–	打开时有不可见激光辐射，避免激光束照射。
注意	–	ここを開くと不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。 RQLXS0058

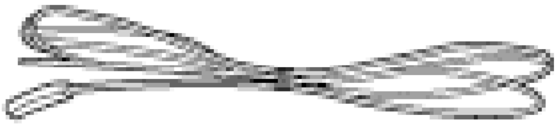
Inside of product
Tuotteen sisällä
Produktets innside

8. Accessories

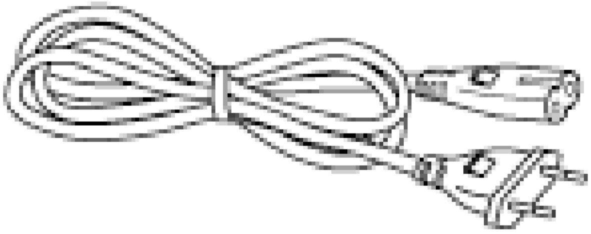
Remote Control Transmitter



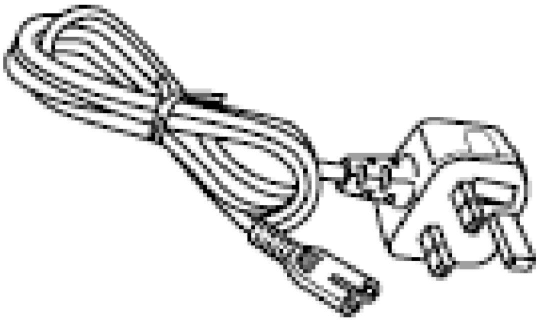
FM Indoor Antenna



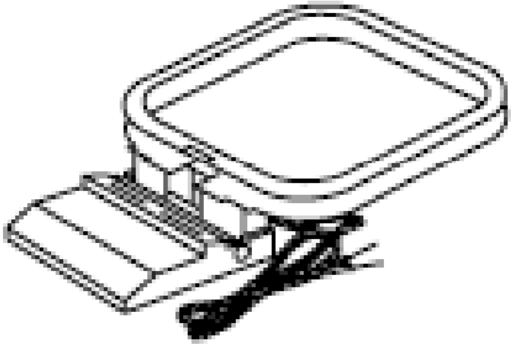
AC Power Supply Cord (For E & EG ony)



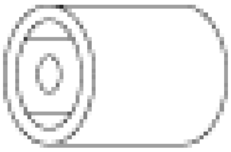
AC Power Supply Cord (For EB ony)



AM Loop Antenna



Antenna Plug Adapter (For EB only)



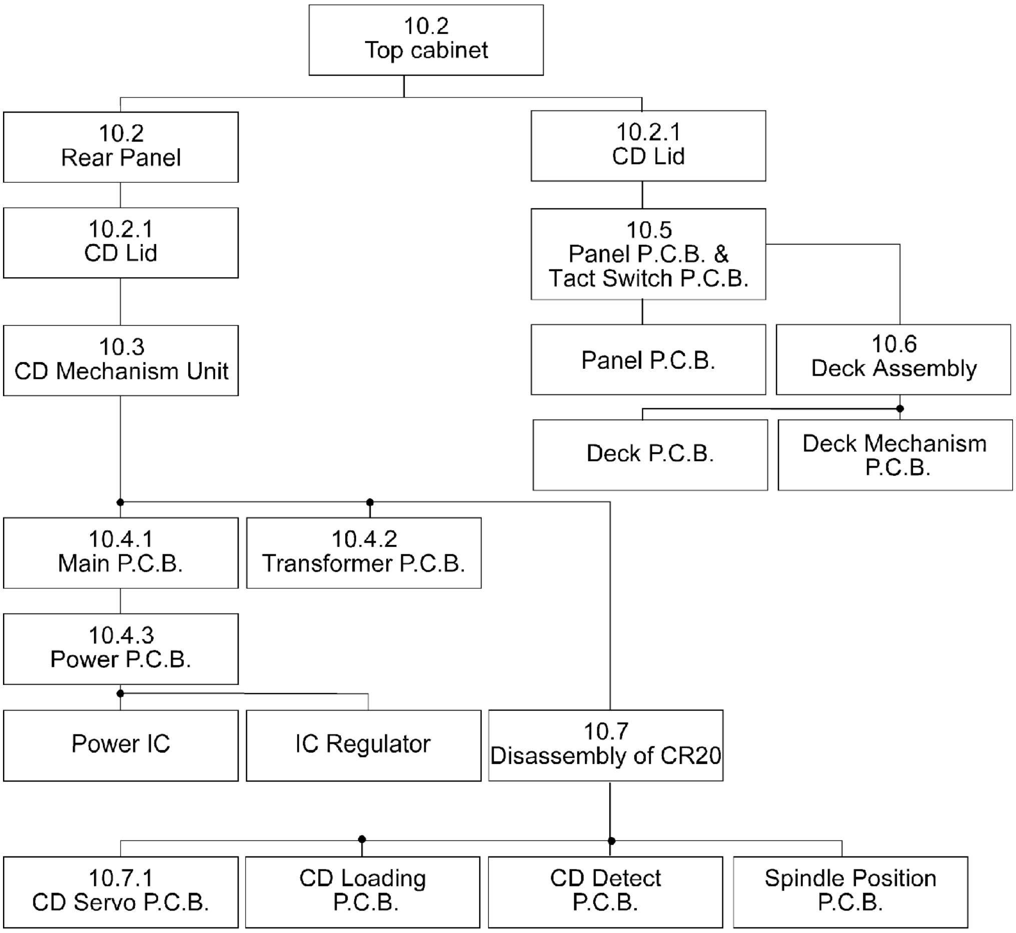
9. Operation Procedures

10. Disassembly and Assembly of Main Component

10.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

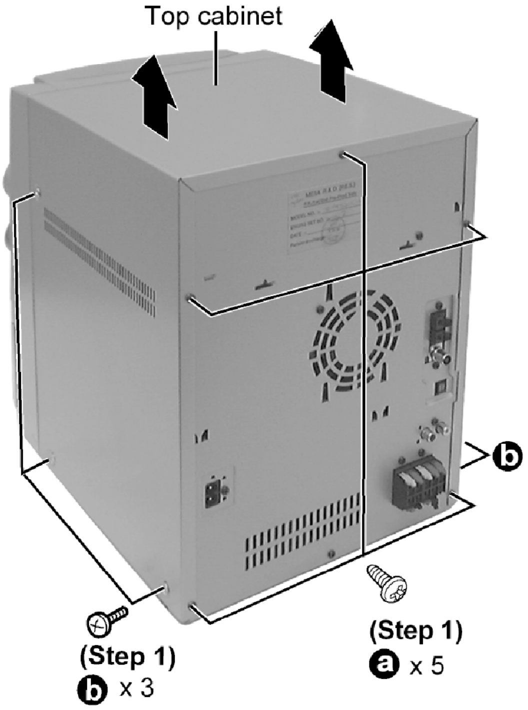
To assemble the unit, reverse the steps shown in the chart as below.


10.2
Top cabinet
10.2
Rear Panel
10.2.1
CD Lid
10.2.1
CD Lid
10.5
Panel P.C.B. &
Tact Switch P.C.B.
10.3
CD Mechanism Unit
Panel P.C.B.
10.6
Deck Assembly
Deck P.C.B.
Deck Mechanism
P.C.B.
10.4.1
Main P.C.B.
10.4.2
Transformer P.C.B.
10.4.3
Power P.C.B.
Power IC
IC Regulator
10.7
Disassembly of CR20
10.7.1
CD Servo P.C.B.
CD Loading
P.C.B.
CD Detect
P.C.B.
Spindle Position
P.C.B.

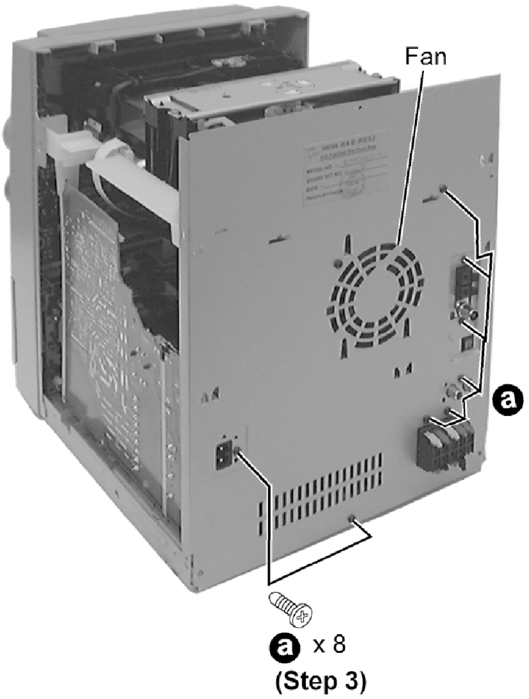
10.2. Disassembly of Top Cabinet and Rear Panel

Step 1 Remove 3 screws each side and 5 screws at rear panel.

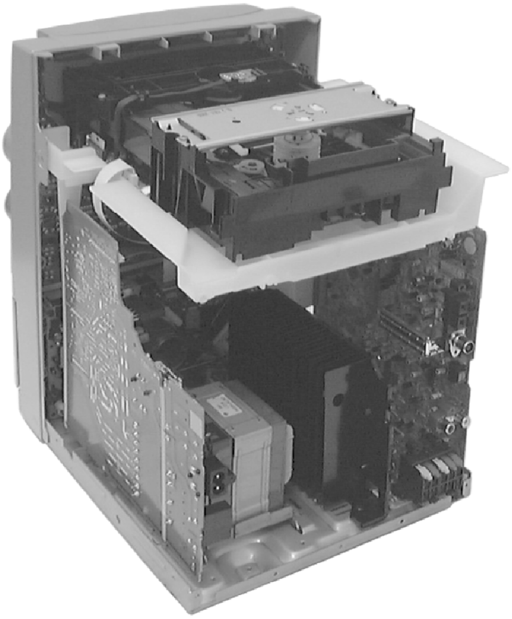
Step 2 Lift up both sides of top cabinet, push the cabinet ass’y toward the rear and remove it.


Top cabinet
b
(Step 1)
b x 3
(Step 1)
a x 5

- Disassembly of Rear Panel


Fan
a
a x 8
(Step 3)

Step 3 Remove 8 screws.
Step 4 Detach wire at CN305 (Fan).



Step 5 Draw rear panel backward to remove.

10.2.1. Disassembly for CD Lid

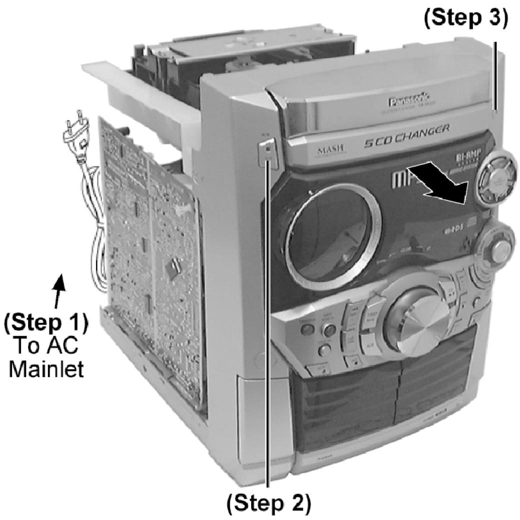
(The CD changer unit can be removed after the CD Lid is removed)

- Follow the (Step 1) - (Step 5) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel

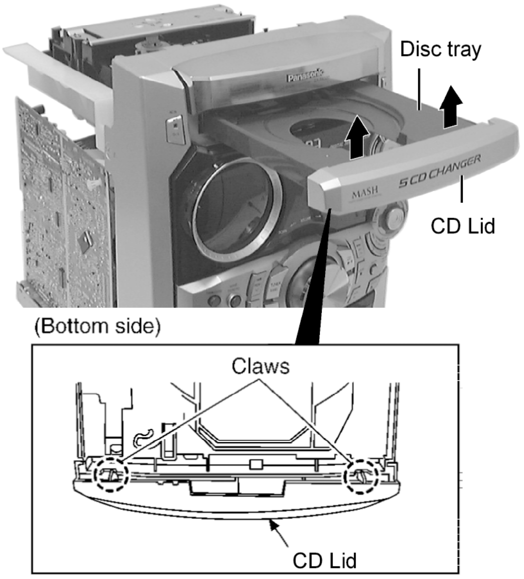
When opening the disc tray automatically (Using Power Supply)

Step 1 Connect the AC power cord.

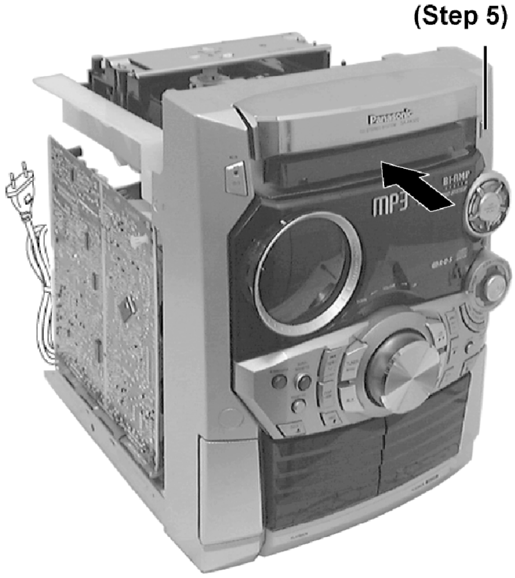
Step 2 Press the POWER button to power up the main unit.


(Step 3)
5 CD CHANGER
MASH
(Step 1)
To AC
Mainlet
(Step 2)

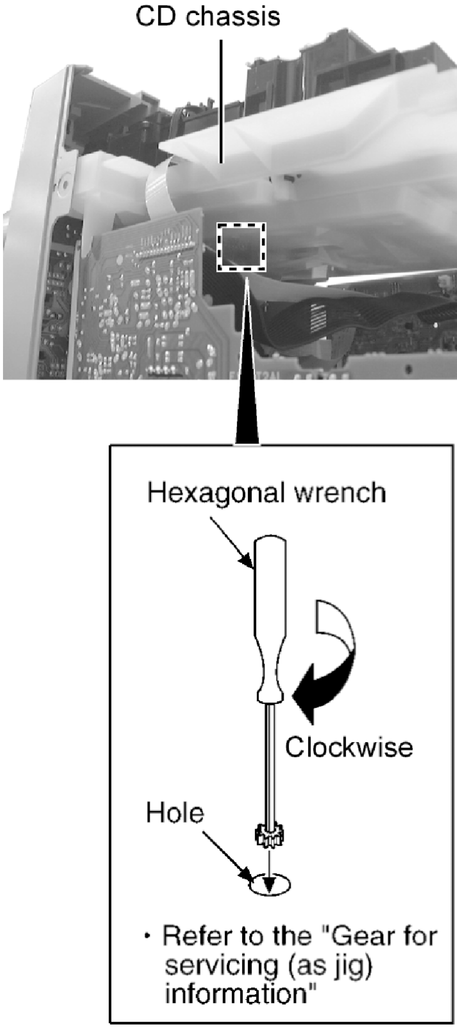
Step 3 Press the OPEN/CLOSE button, the disc tray will be open automatically.


Disc tray
CD Lid
(Bottom side)
Claws
CD Lid

Step 4 Release the 2 claws, and then remove the CD Lid.

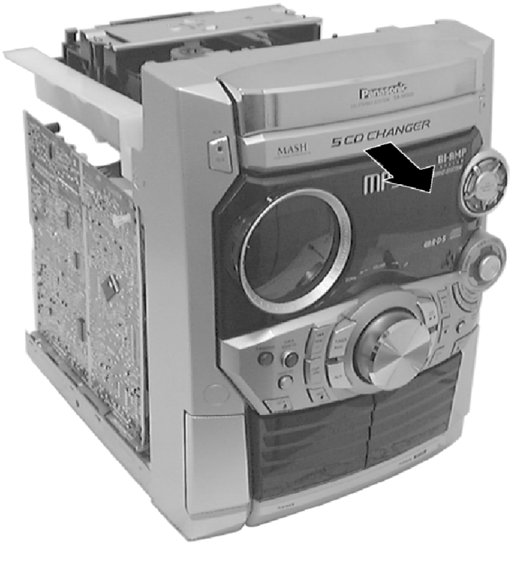


Step 5 Press the OPEN/CLOSE button, the disc tray will be close.
[Open the disc tray manually (Using service tools)]

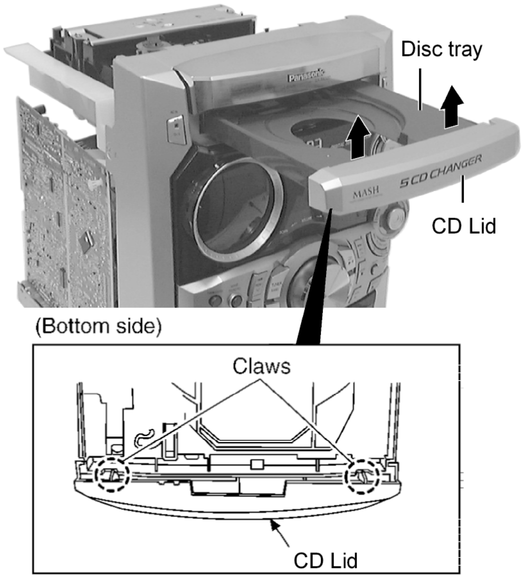

CD chassis
Hexagonal wrench
Clockwise
Hole

• Refer to the "Gear for servicing (as jig) information"

Step 1 Insert the gear tool into the hole on the underside of CD chassis and then rotate in the direction of arrow. The disc tray will be open.



Step 2 Release the 2 claws, and then remove the CD lid cover.


Disc tray
CD Lid
(Bottom side)
Claws
CD Lid

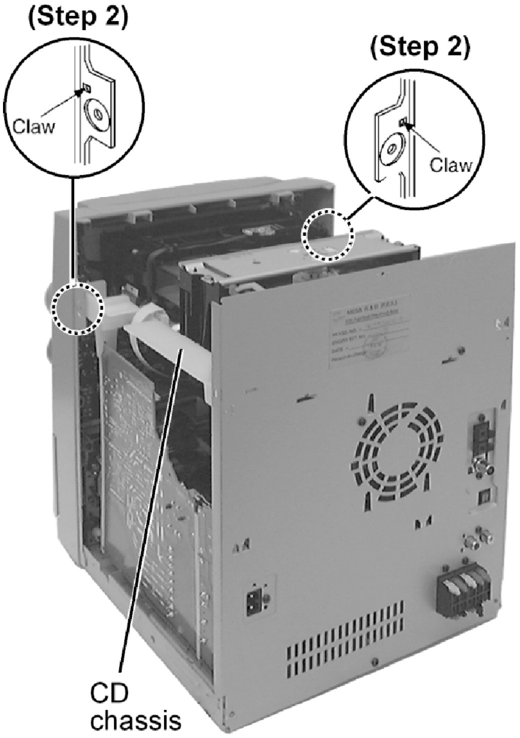
Step 3 Repeat Step 2 but rotate the gear tools in anti-clockwise direction.

Step 4 The disc tray will be close.

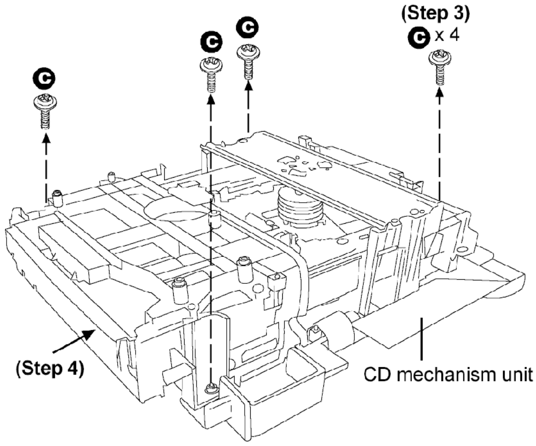
10.3. Disassembly of CD Mechanism Unit

- **Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel**
- **Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid**

Step 1 Detach the FFC boards (CN309 & CN310).


(Step 2)
Claw
(Step 2)
Claw
CD chassis

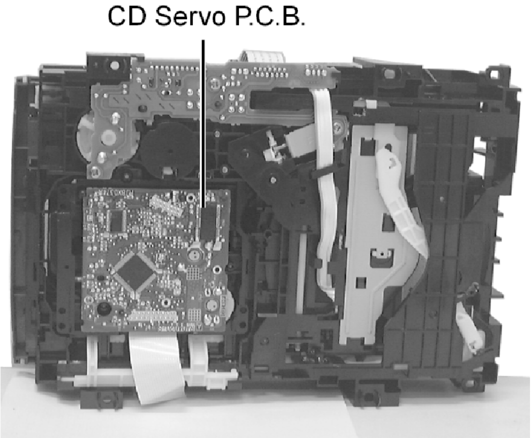
Step 2 Release the claws of both ends, and then lift up the CD Mechanism Unit.


(Step 3)
C x 4
C
C
C
(Step 4)
CD mechanism unit

Step 3 Remove 4 screws.
Step 4 Remove the CD chassis.
Step 5 Lay the CD mechanism unit as shown.

- Note:

For disassembly of CD mechanism unit, please refer to Section 10.7 of this manual.

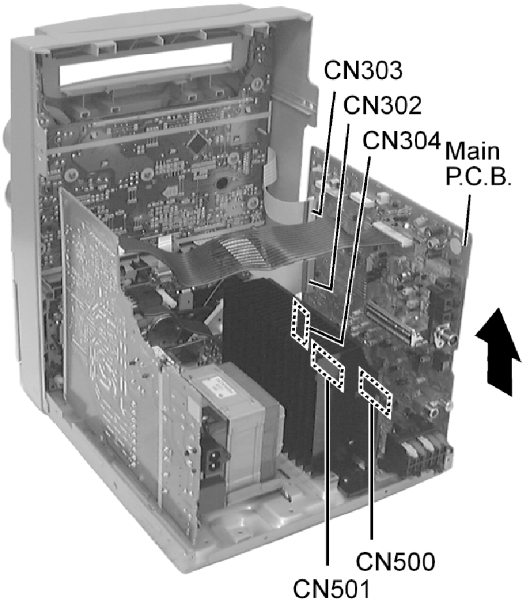


10.4. Disassembly Main P.C.B., Transformer P.C.B. & Power P.C.B.

10.4.1. Disassembly for the Main P.C.B.

- **Follow the (Step 1) - (Step 5) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel**
- **Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid**
- **Follow the (Step 1) - (Step 5) of Item 10.3 - Disassembly of the CD Mechanism Unit**

Step 1 Disconnect FFC board at CN303, CN302 & CN304 .



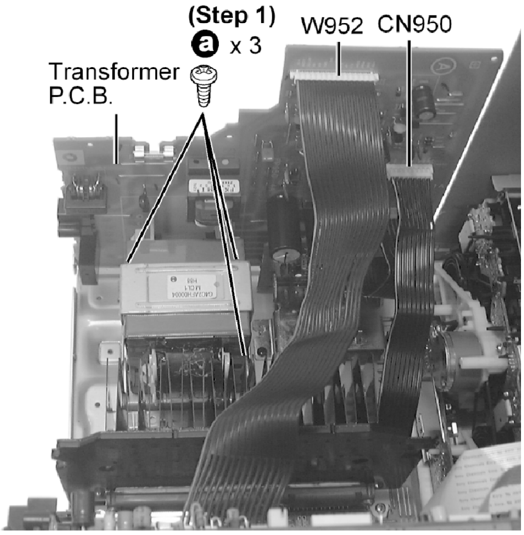
Step 2 Lift up Main P.C.B. by disconnect CN500 & CN501 as arrow shown above.

10.4.2. Disassembly of the Transformer P.C.B.

- **Follow the (Step 1) - (Step 5) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel**
- **Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid**
- **Follow the (Step 1) - (Step 5) of Item 10.3 - Disassembly of the CD**

Mechanism Unit

Step 1 Remove 3 screws.


(Step 1)
a x 3
Transformer P.C.B.
W952
CN950

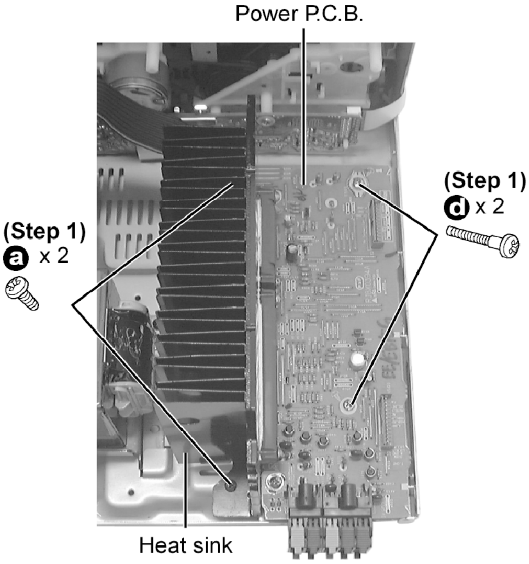
Step 2 Disconnect connector CN950.

10.4.3. Disassembly of the Power P.C.B.

- Follow the (Step 1) - (Step 5) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel
- Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid
- Follow the (Step 1) - (Step 5) of Item 10.3 - Disassembly of the CD Mechanism Unit
- Follow the (Step 1) - (Step 2) of Item 10.4.1 - Disassembly for the Main P.C.B.

Step 1 Remove 2 screws.

Step 2 Remove the 2 screws fixed at heat sink.

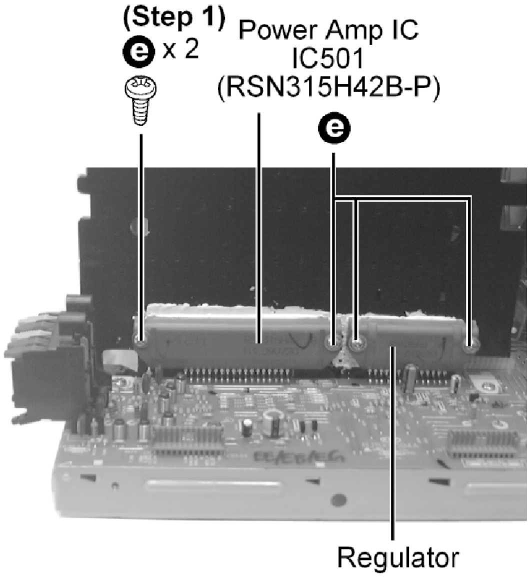

Power P.C.B.
(Step 1)
d x 2
(Step 1)
a x 2
Heat sink

NOTE:

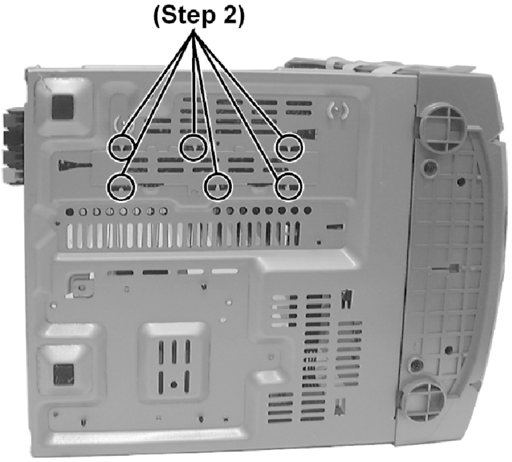
Insulate Power P.C.B. with insulation material to avoid short circuit.

- Replacement of Power Amplifier IC & Voltage Regulator

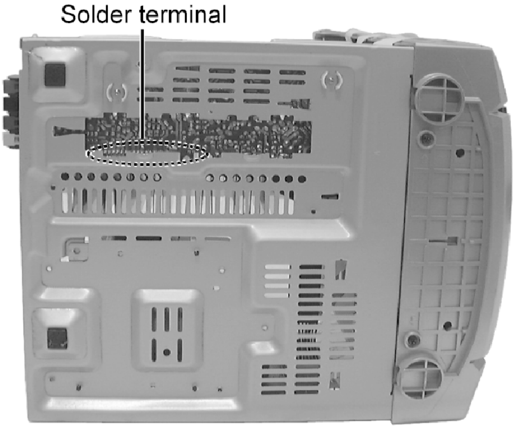
Step 1 Remove 2 screws (For Power Amp IC) and 1 screw (For Voltage Regulator) .


(Step 1)
e x 2
Power Amp IC
IC501
(RSN315H42B-P)
e
Regulator

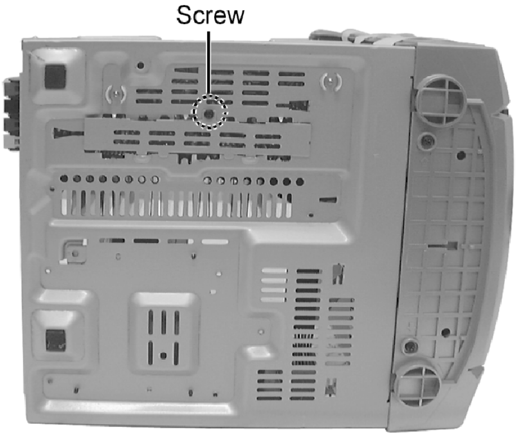
Step 2 Break the joint with a metal cutter as shown below.



Step 3 Unsolder the terminals of Power Amp IC, transistor and replace the components.


Solder terminal

Step 4 Fix back the cutted portion with a screw as shown.



10.5. Disassembly of Panel P.C.B. & Tact Switch P.C.B.

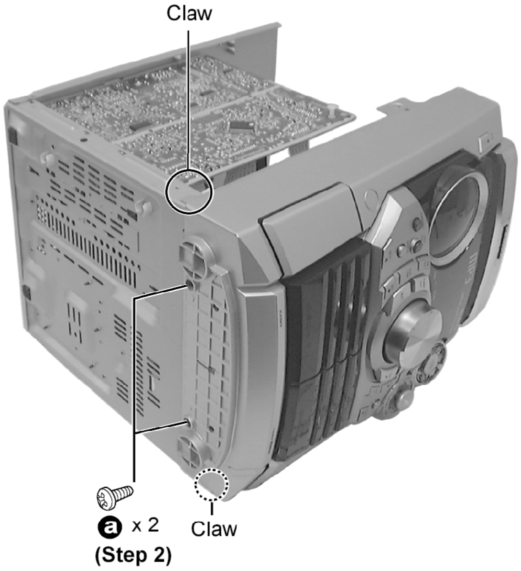
- Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel

- Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid

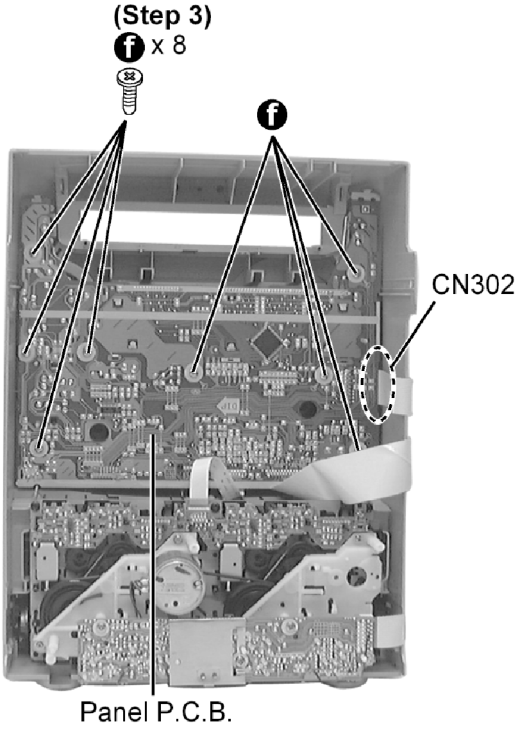
- Follow the (Step 1) - (Step 5) of Item 10.3 - Disassembly of the CD Mechanism Unit

- Disassembly of Panel P.C.B.

Step 1 Lay the unit as shown below.



Step 2 Remove 2 screws, release 2 claws, and then draw the front panel ass'y forward.

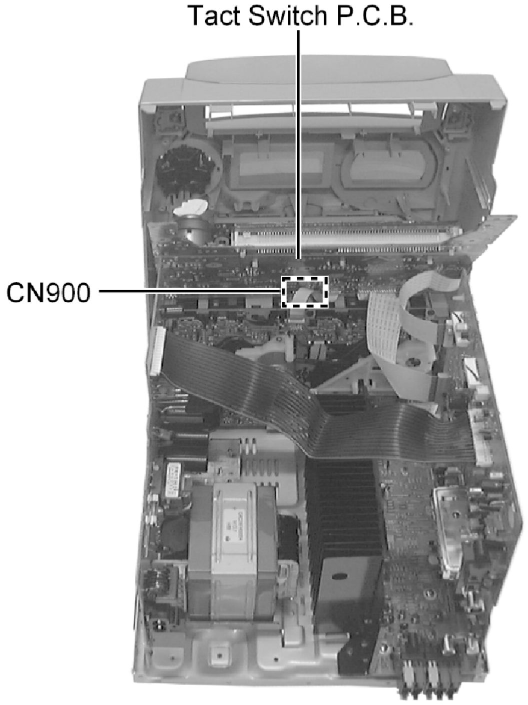

(Step 3)
f x 8
f
CN302
Panel P.C.B.

Step 3 Remove the 8 screws.

Step 4 Disconnect FFC board (CN302).

- Disassambly of Tact Switch P.C.B.

Step 5 Disconnect connector CN900.


Tact Switch P.C.B.
CN900

Step 6 Pull out the volume knob.

Step 7 Pull Panel P.C.B. forward.

10.6. Disassembly of Deck Mechanism Unit & Deck P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel

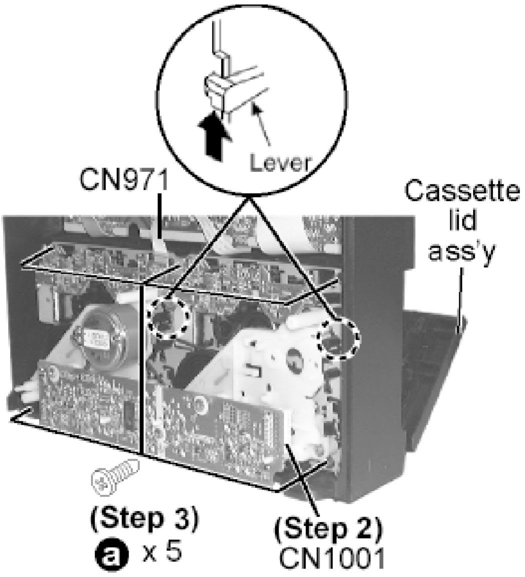
- Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid

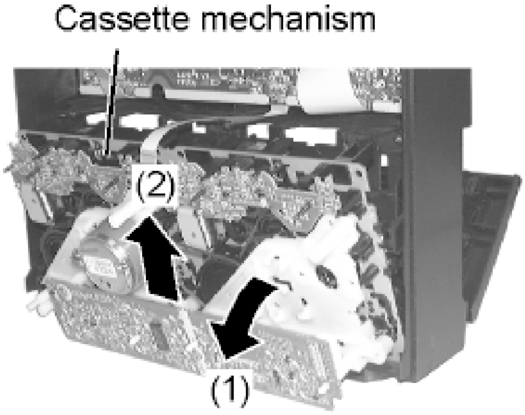
- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of the CD Mechanism Unit

Step 1 Detach FFC board. (CN971)

Step 2 Disconnect FFC flat cable from the connector (CN1001).

Step 3 Remove the 5 screws.

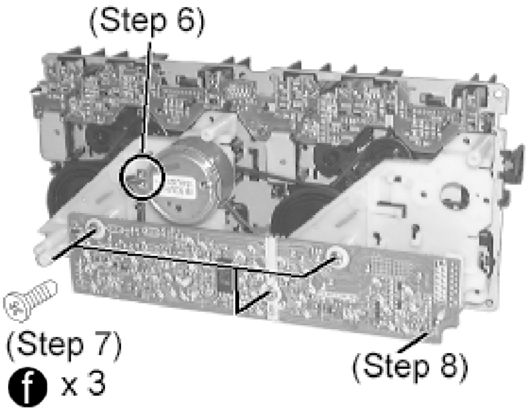

Lever
CN971
Cassette
lid
ass'y
(Step 3)
a x 5
(Step 2)
CN1001


Cassette mechanism
(2)
(1)

Step 4 Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).

Step 5 Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the direction of arrow (2).

- For replacement of Deck P.C.B.


(Step 6)
(Step 7)
f x 3
(Step 8)

Step 6 Unsolder the motor terminals.

Step 7 Remove 3 screws.

Step 8 Remove Deck P.C.B.

10.7. CD Mechanism Main Component Replacement Procedures

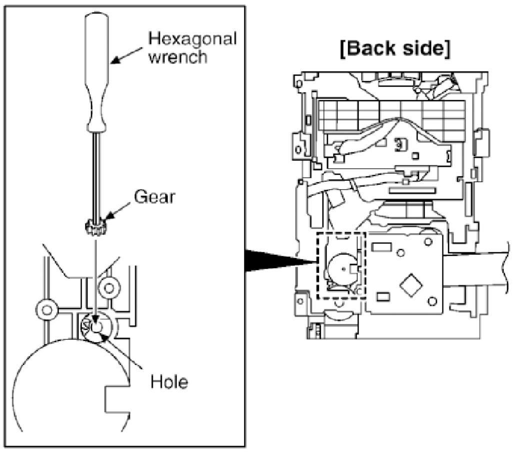
- Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel

- Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid

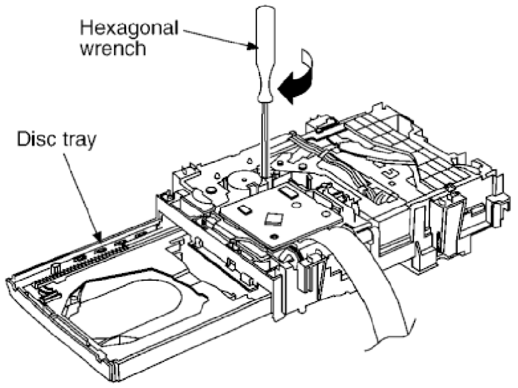
- Follow the (Step 1) - (Step 5) of Item 10.3 - Disassembly of the CD Mechanism Unit

10.7.1. Replacement of the Traverse Deck

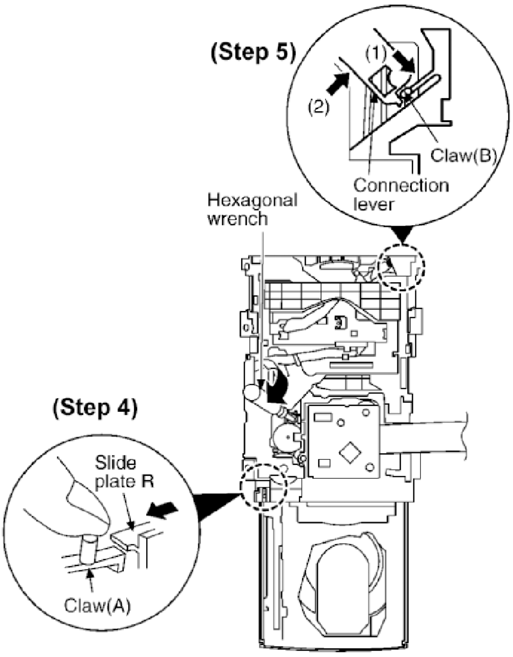
Step 1 Remove the CD changer unit.


Hexagonal wrench
Gear
Hole
[Back side]

Step 2 Insert the gear with hexagonal wrench into the hole.

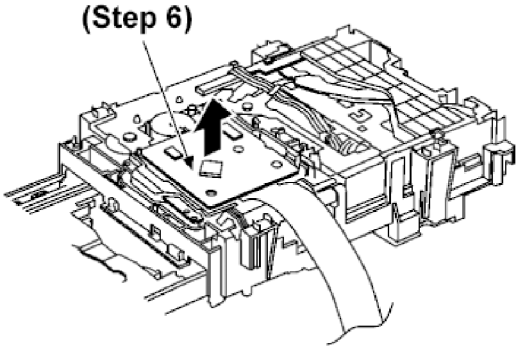

Hexagonal wrench
Disc tray

Step 3 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

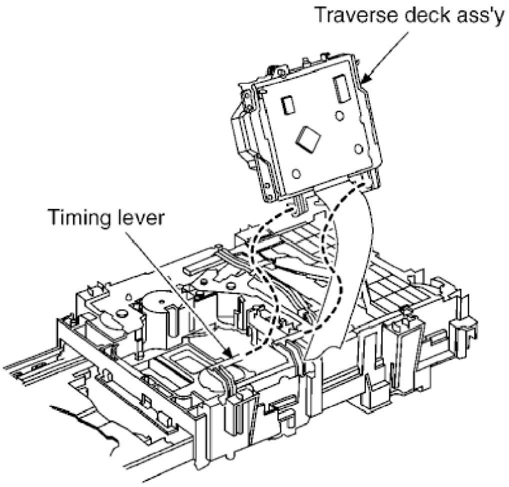

(Step 5)
(1)
(2)
Claw(B)
Connection lever
Hexagonal wrench
(Step 4)
Slide plate R
Claw(A)

Step 4 With pressing the claw (A), rotate the hexagonal wrench clockwise. (The slide plate R moves for a little amount.)

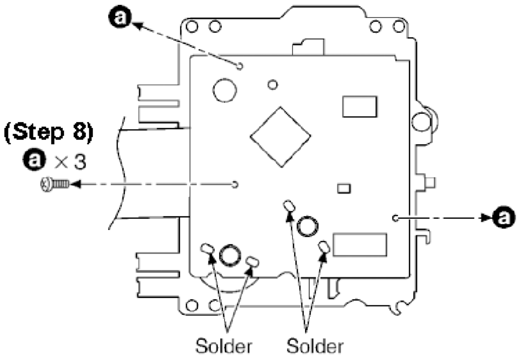
Step 5 Pressing the claw (B) in the direction of arrow (1), the connection lever moves in the direction of arrow (2).



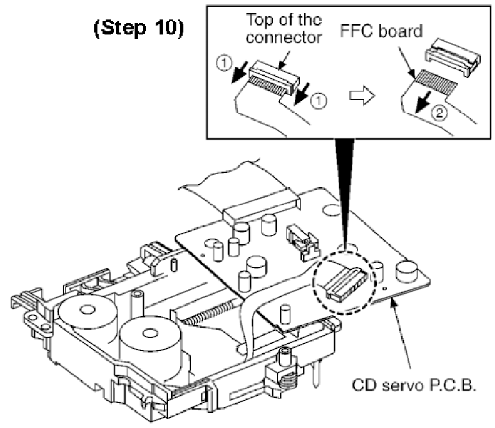
Step 6 Lift up the traverse deck ass'y.

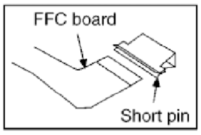

Traverse deck ass'y
Timing lever

Step 7 Remove the traverse deck ass’y from the timing lever.
Caution:
When removing or inserting the traverse deck avoid touching the OPU lens and pressing onto the turntable.


(Step 8)
a × 3
a
a
Solder
Solder

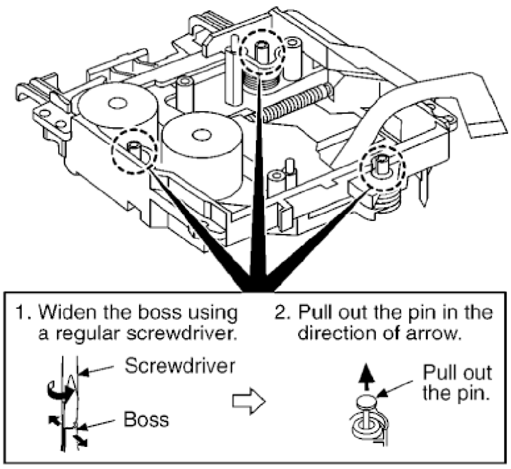
Step 8 Remove 3 screws.
Step 9 Unsolder the motor terminals (4 points).


(Step 10)
Top of the connector
FFC board
①
①
②
CD servo P.C.B.

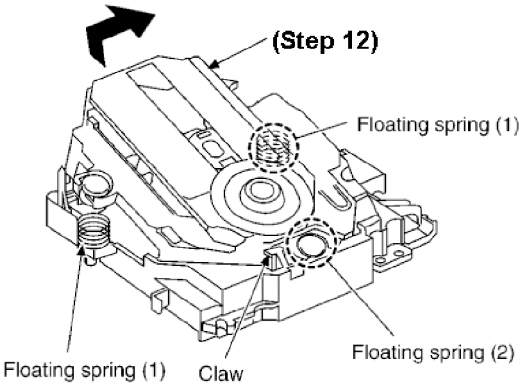

FFC board
Short pin

Caution:
Insert a short pin into the traverse unit FFC board.
(Refer to “**Handling Precautions for Traverse Deck**”.)

Step 10 Remove the FFC board from the connector, and then remove the CD Servo P.C.B.


1. Widen the boss using a regular screwdriver.
2. Pull out the pin in the direction of arrow.
Screwdriver
Boss
Pull out the pin.

Step 11 Remove the pin.


(Step 12)
Floating spring (1)
Floating spring (1)
Claw
Floating spring (2)

Step 12 Release the claw, and then remove the traverse deck ass'y.

Note:

Be careful not to lose the 3 floating spring because those will also be removed on removal of the traverse deck ass'y.

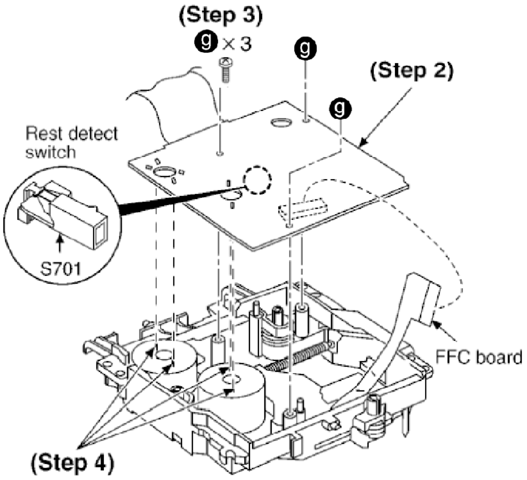
- Installation of the CD Servo P.C.B. after replacement

Step 1 Connect the FFC board.

Step 2 Install the CD servo P.C.B. in the traverse deck ass'y.

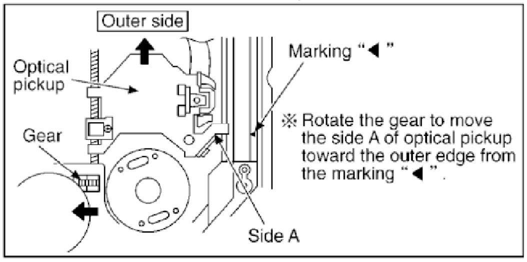
Step 3 Remove 3 screws.

Step 4 Solder.


(Step 3)
g × 3
g
g
(Step 2)
Rest detect switch
S701
FFC board
(Step 4)

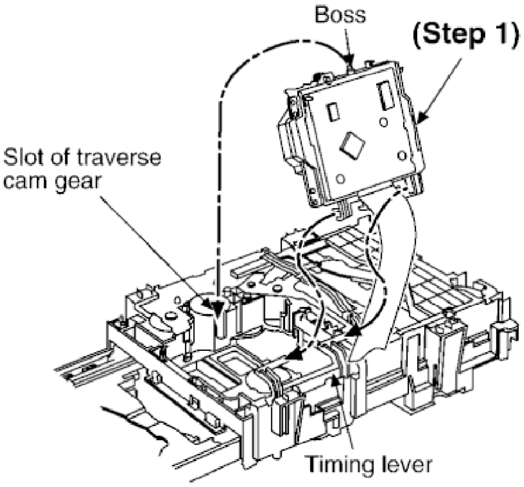
- Note for installation of the CD servo P.C.B.

Before installing the CD servo P.C.B., move the optical pickup toward the outer edge from the mark "◀".
[Otherwise, the rest detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]

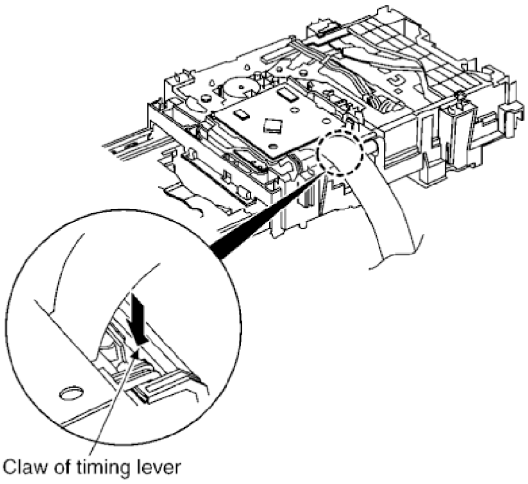

Outer side
Optical pickup
Gear
Marking "◀"
Side A

※ Rotate the gear to move the side A of optical pickup toward the outer edge from the marking "◀".

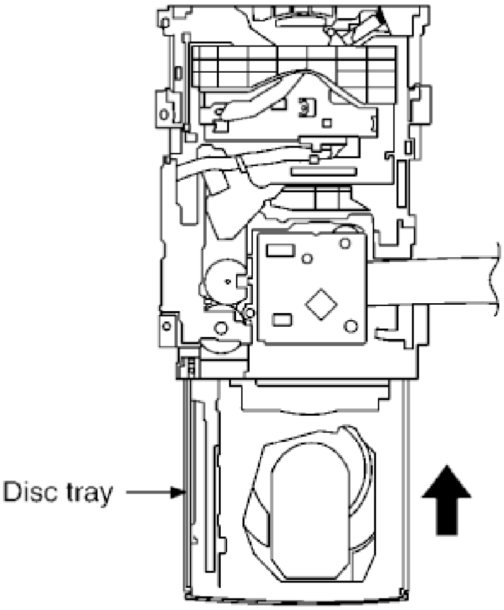
- Installation for traverse deck ass'y


Boss
(Step 1)
Slot of traverse cam gear
Timing lever

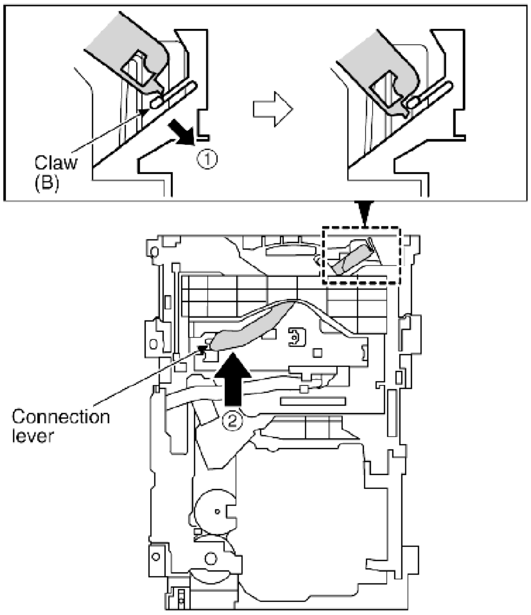
Step 1 Install the traverse deck ass'y to the timing lever.
Step 2 Align the boss of traverse deck ass'y with the slot of traverse cam gear.


Claw of timing lever

Step 3 Force the claw of timing lever.



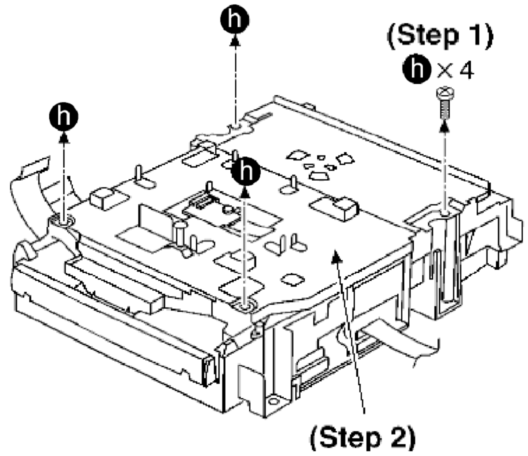
Step 4 Force the disc tray fully.


Claw
(B)
①
②
Connection
lever

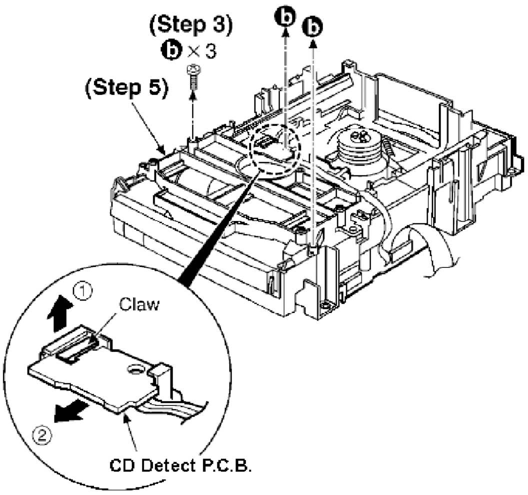
Step 5 With pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).

10.7.2. Replacement for the Disc Tray

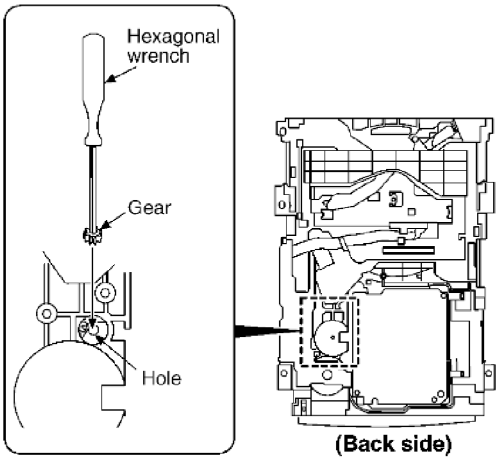
Step 1 Remove 4 screws.


h
h
h
(Step 1)
h × 4
(Step 2)

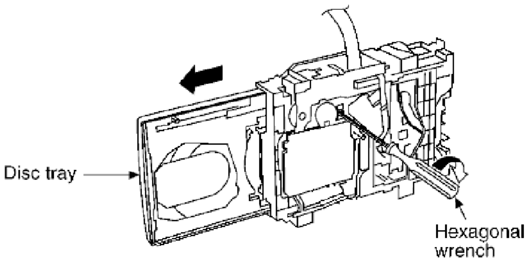
Step 2 Remove the upper plate.
Step 3 Remove 3 screws.


(Step 3)
b × 3
b
b
(Step 5)
①
Claw
②
CD Detect P.C.B.

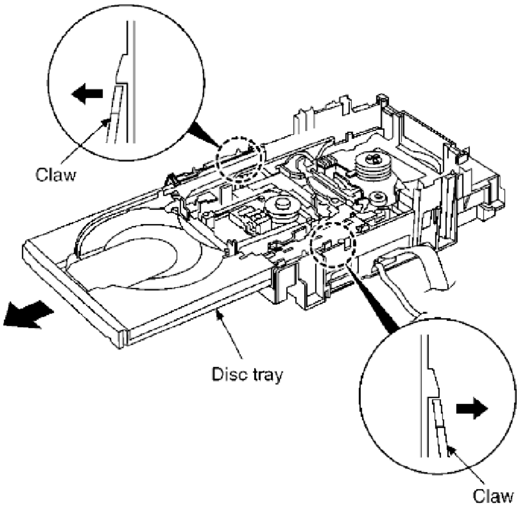
Step 4 With lifting the claw in the direction of (1), draw the CD Detect P.C.B. in the direction of arrow (2).
Step 5 Remove the mechanism cover.


Hexagonal wrench
Gear
Hole
(Back side)

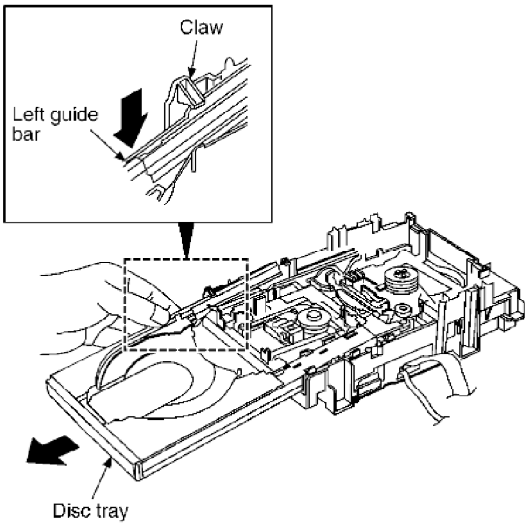
Step 6 Insert the gear with hexagonal wrench into the hole.


Disc tray
Hexagonal wrench

Step 7 Rotate the hexagonal wrench in the direction of arrow, and then open the disc tray fully.

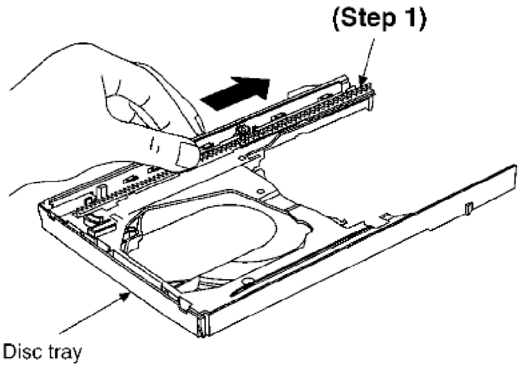

Claw
Disc tray
Claw

Step 8 Release the both claws, and then draw the disc tray.

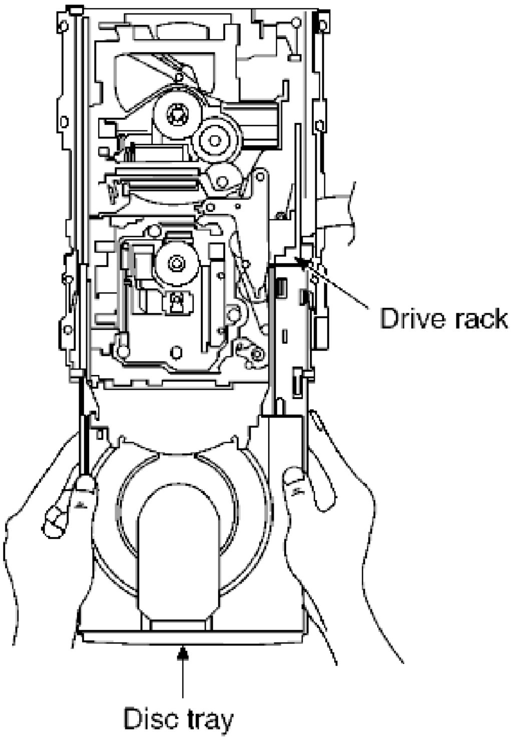

Claw
Left guide bar
Disc tray

Step 9 With forcing the left guide bar manually because the left guide bar interfers with claw, draw the disc tray.

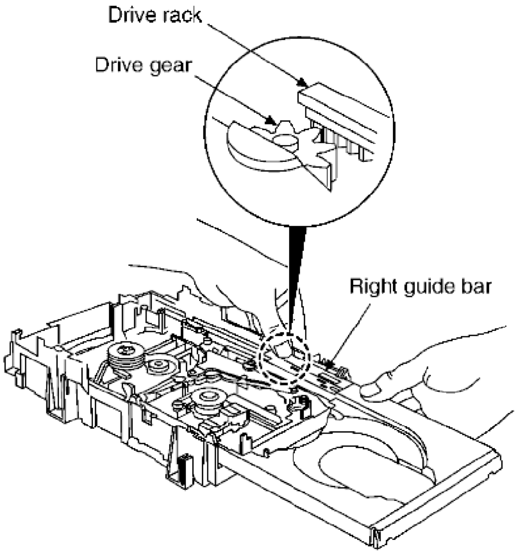
[Installation of the disc tray after replacement]


(Step 1)
Disc tray

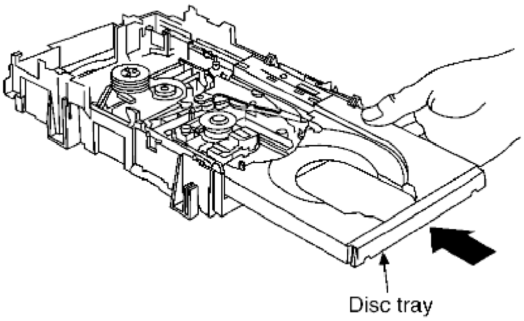
Step 1 Slide the drive rack fully in the direction of arrow.


Drive rack
Disc tray

Step 2 Holding the drive rack not to move, install the disc tray.
Step 3 Align the drive rack with the drive gear.


Drive rack
Drive gear
Right guide bar

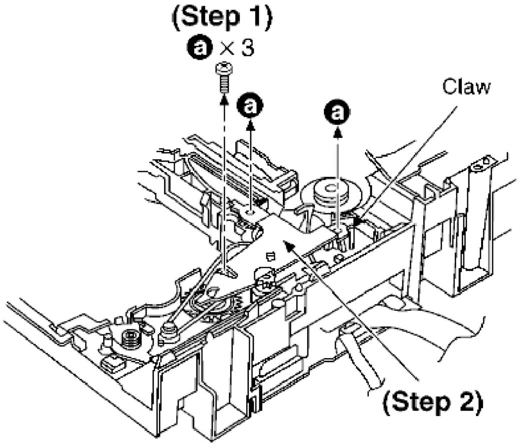
NOTE:
Force the right guide bar of tray base manually not to move upwards.



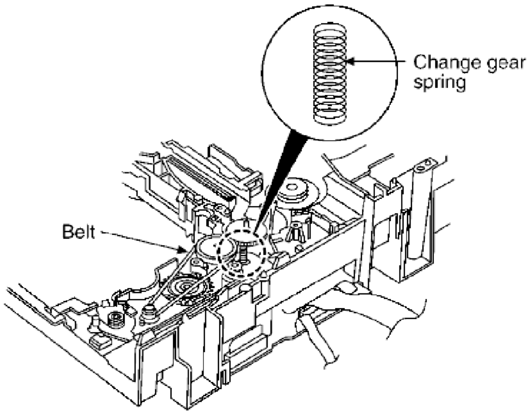
Step 4 Holding the disc tray manually, push the disc tray in the direction of the arrow.

10.7.3. Disassembly and reassembly for mechanism base drive unit

Step 1 Remove 3 screws.


(Step 1)
ⓐ × 3
ⓐ
ⓐ
Claw
(Step 2)

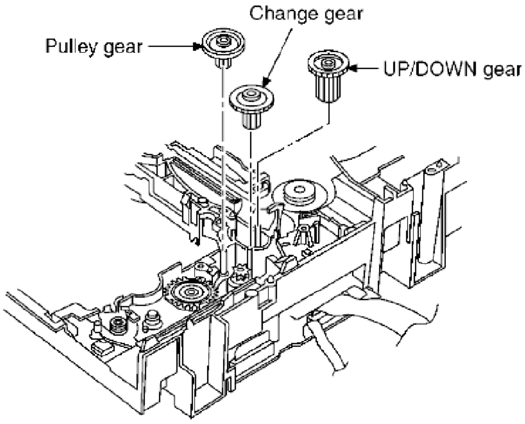
Step 2 Release the claw, and then remove the gear holder.
Step 3 Remove the belt and change gear spring.


Change gear spring
Belt

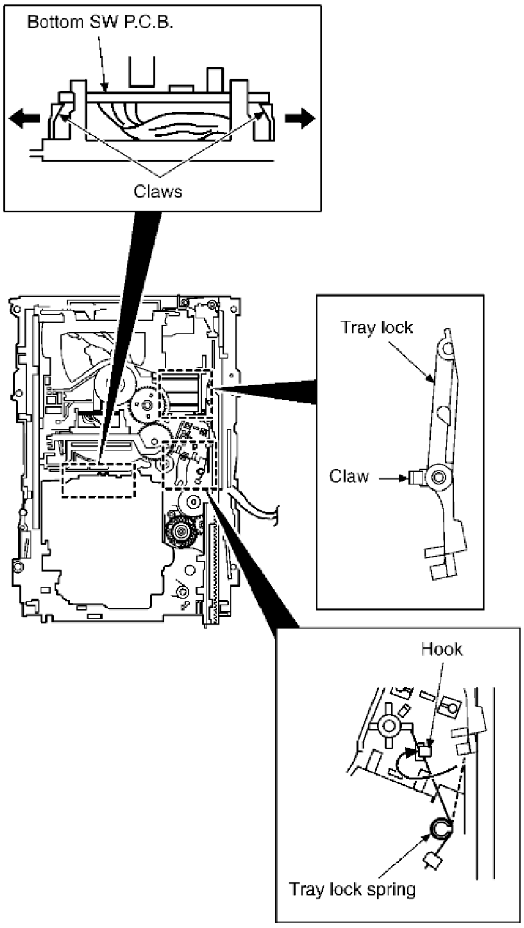
NOTE:

Take care not to lose the change gear spring.

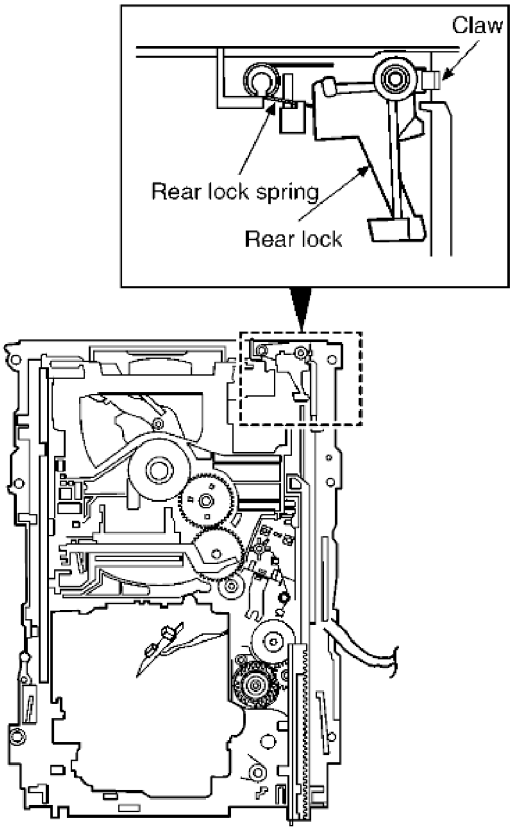
Step 4 Remove the pulley gear, change gear and UP/DOWN gear.


Change gear
Pulley gear
UP/DOWN gear

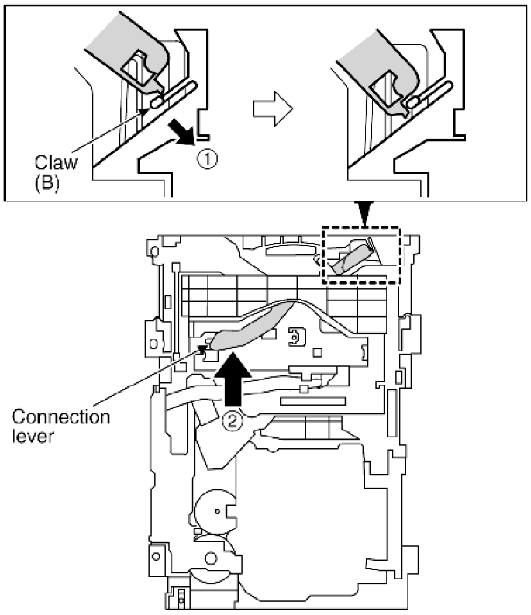
Step 5 Release the 2 claws, and then remove the bottom SW P.C.B..


Bottom SW P.C.B.
Claws
Tray lock
Claw
Hook
Tray lock spring

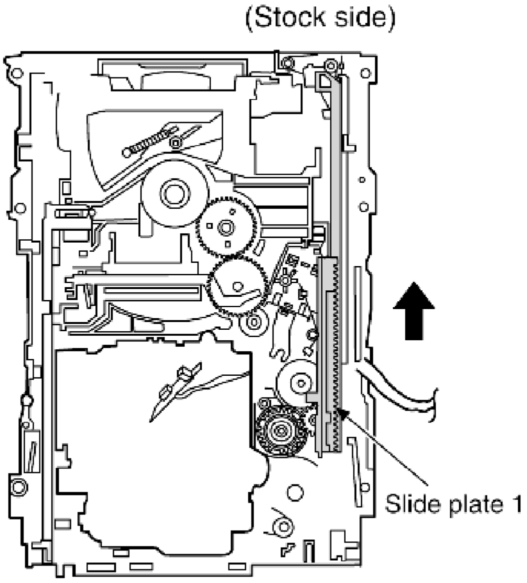
Step 6 Install the tray lock spring to hook temporary.
Step 7 Release the claw, and then remove the tray lock.
Step 8 Release the claw, and then remove the rear lock.


Claw
Rear lock spring
Rear lock

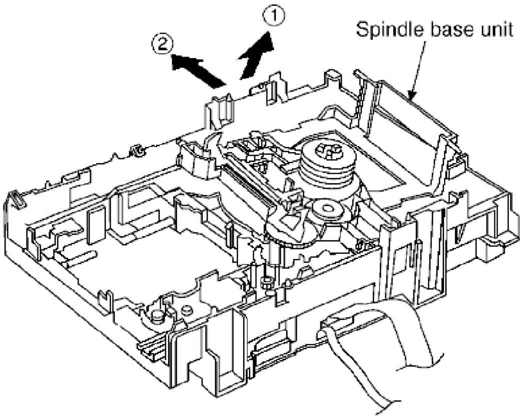
Step 9 Pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).

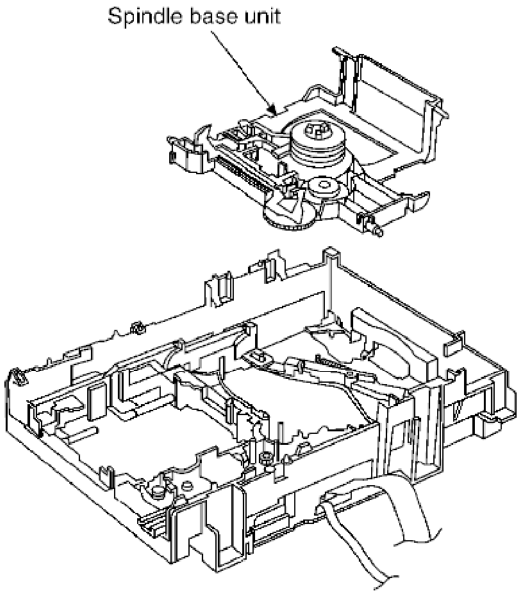

Claw
(B)
①
Connection
lever
②

Step 10 Move the slide plate 1 to the end of stock side.

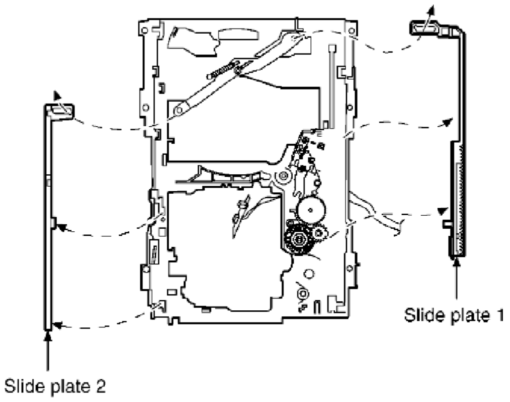

(Stock side)
Slide plate 1

Step 11 Lift up the left end of spindle base unit in the direction of arrow (1), and then remove the unit in the direction of arrow (2).

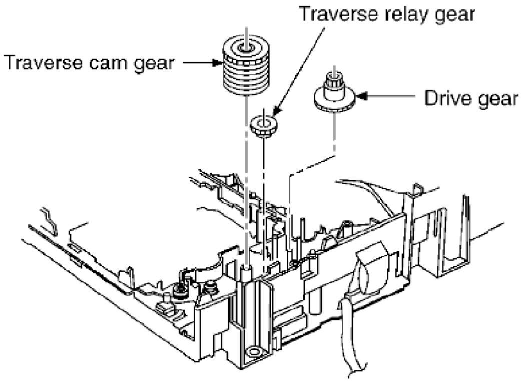

①
②
Spindle base unit


Spindle base unit

Step 12 Remove slide plate 1 and slide plate 2.

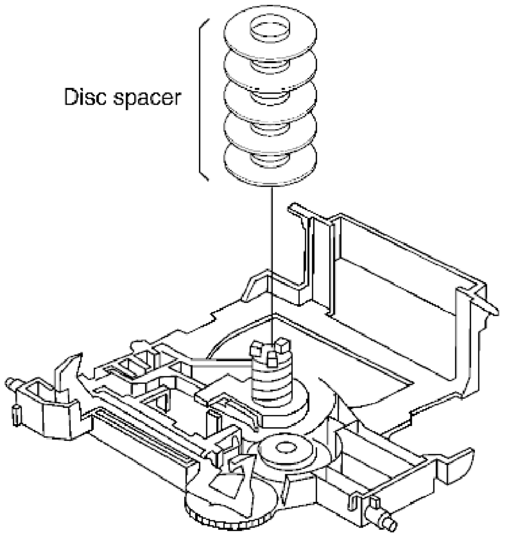

Slide plate 1
Slide plate 2

Step 13 Remove the traverse relay gear, traverse cam gear and drive gear.

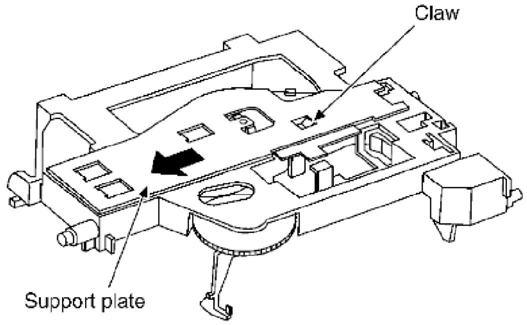

Traverse relay gear
Traverse cam gear
Drive gear

[Dissassembly/reassembly for the spindle base unit]

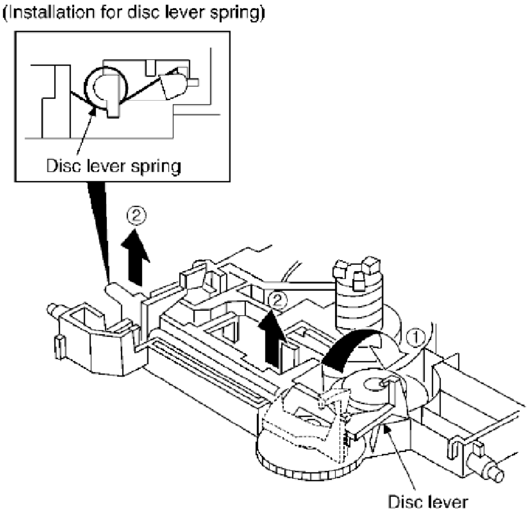
Step 1 Draw the 5 disc spacers.


Disc spacer

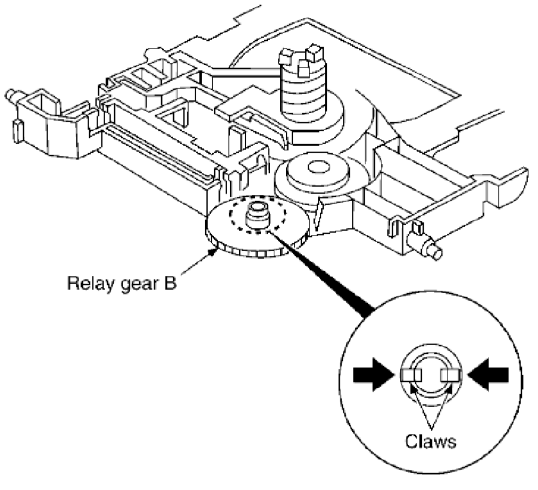
Step 2 Pushing the claw, slide the support plate in the direction of arrow, and then remove it.


Claw
Support plate

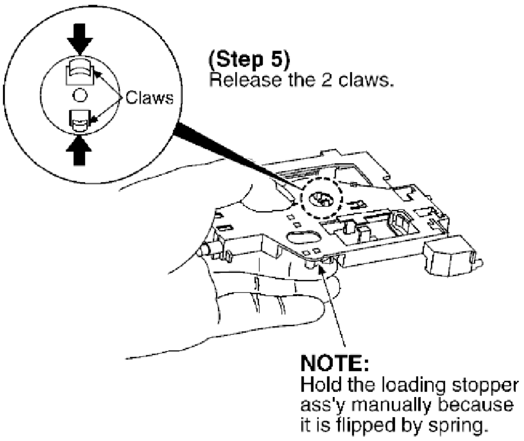
Step 3 Rotate the disc lever in the direction of arrow (1), draw the disc lever.


(Installation for disc lever spring)
Disc lever spring
②
②
①
Disc lever

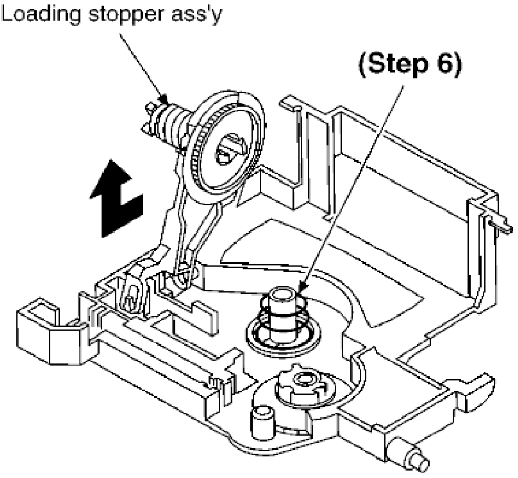
NOTE:
Take care not to lose the disc lever spring.


Relay gear B
Claws

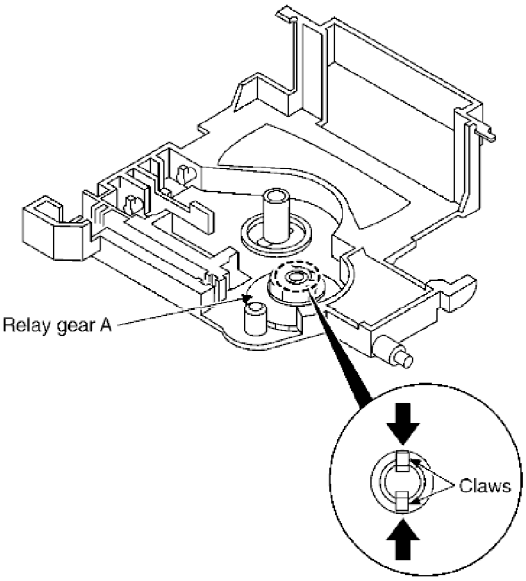
Step 4 Release the 2 claws, and then draw the relay gear B.
Step 5 Release the 2 claws as shown below.


(Step 5)
Release the 2 claws.
Claws
NOTE:
Hold the loading stopper ass'y manually because it is flipped by spring.

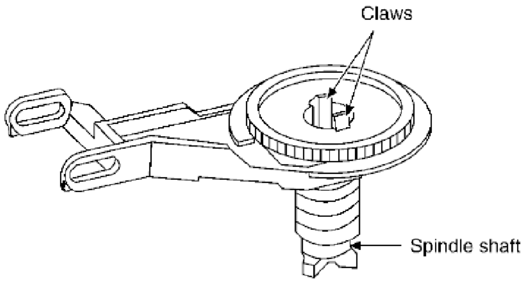
NOTE:
Hold the loading stopper ass'y manually bacause it is flipped by spring.

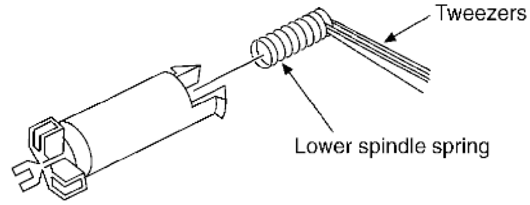

Loading stopper ass'y
(Step 6)

Step 6 Remove the cushion spring.
Step 7 Remove the loading stopper ass'y in the direction of arrow.


Relay gear A
Claws

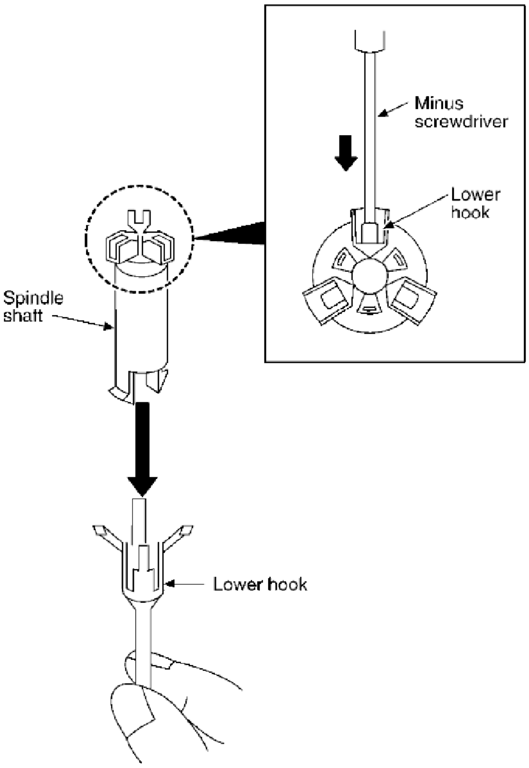
Step 8 Release the 2 claws, and then remove the relay gear A.
Step 9 Release the 2 claws, and then remove the spindle shaft.


Claws
Spindle shaft

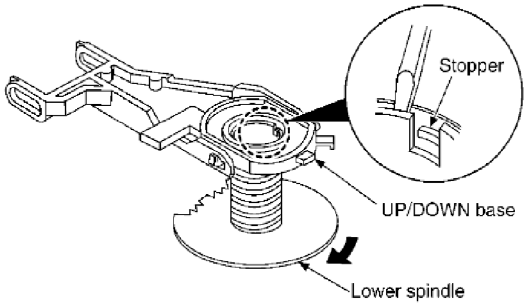

Tweezers
Lower spindle spring

Step 10 Remove the lower spindle spring with tweezers.

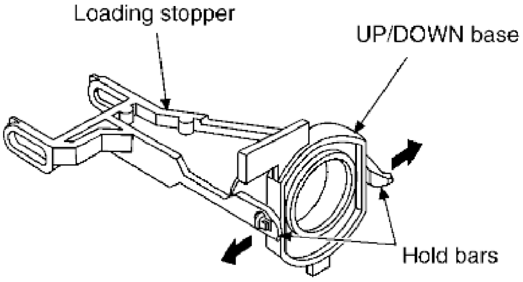
Step 11 Force the lower hook with thin tip of minus screwdriver.


Minus screwdriver
Lower hook
Spindle shaft
Lower hook

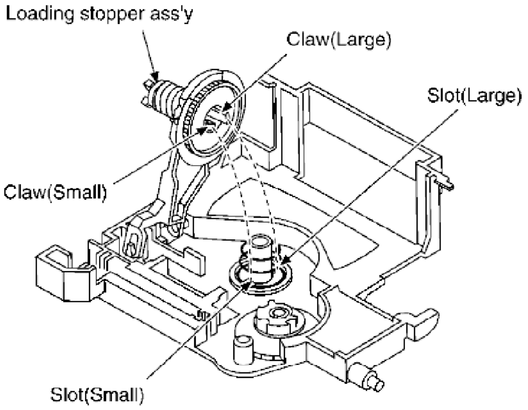
Step 12 Squeeze the shaft of lower hook, and then draw it.


Stopper
UP/DOWN base
Lower spindle

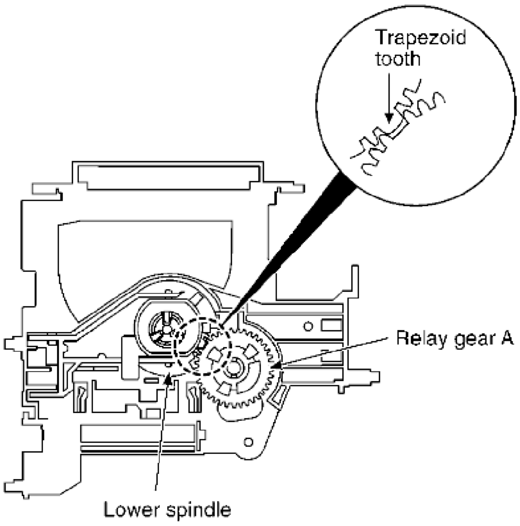
Step 13 Rotate the lower spindle in the direction of arrow until the lower spindle interferes with stopper.
Step 14 Insert the thin tip of minus screwdriver between the lower spindle and UP/DOWN base, and then slacken the lower spindle to release the stopper. Then, rotate the lower spindle and remove it.


Loading stopper
UP/DOWN base
Hold bars

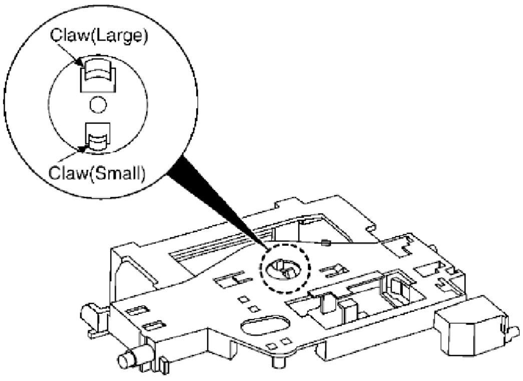
Step 15 Rotate the UP/DOWN base at a 90° angle. Then, spread the hold bars of loading stopper and remove the UP/DOWN base.
[Installation for loading stopper ass'y]
Step 1 Align the claw of loading stoppers ass'y with the slot of spindle base. (Caution should be exercised when alignment of claw due to the size of claws.)


Loading stopper ass'y
Claw(Large)
Slot(Large)
Claw(Small)
Slot(Small)

Step 2 Lower the loading stopper ass'y, and then align the lower spindle with the trapezoid tooth of relay gear A.


Trapezoid tooth
Relay gear A
Lower spindle

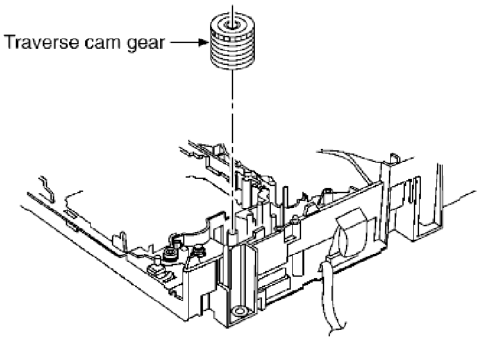
Step 3 Force the loading stopper ass'y, latch the claw firmly.

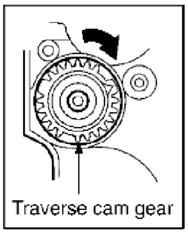

Claw(Large)
Claw(Small)

[Reassembly for mechanism base drive unit]

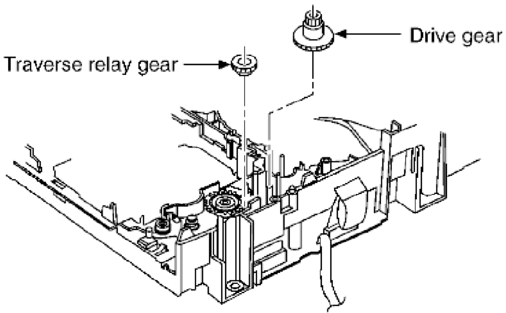
Step 1 Install the traverse cam gear.

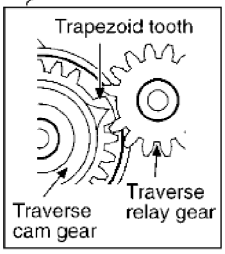
Step 2 Rotate the traverse cam gear to the direction of arrow.


Traverse cam gear


Traverse cam gear

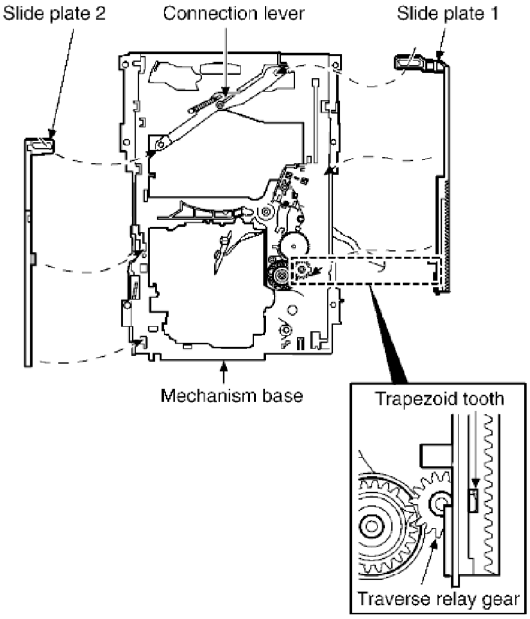
Step 3 Install the drive gear and traverse relay gear.


Traverse relay gear
Drive gear

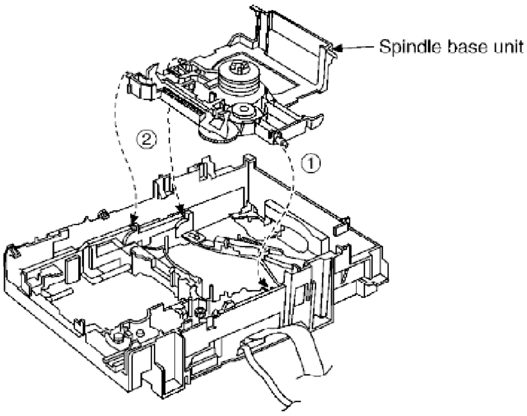

Trapezoid tooth
Traverse cam gear
Traverse relay gear

***When installing the traverse relay gear, align the trapezoid tooth of gear with tooth of traverse**

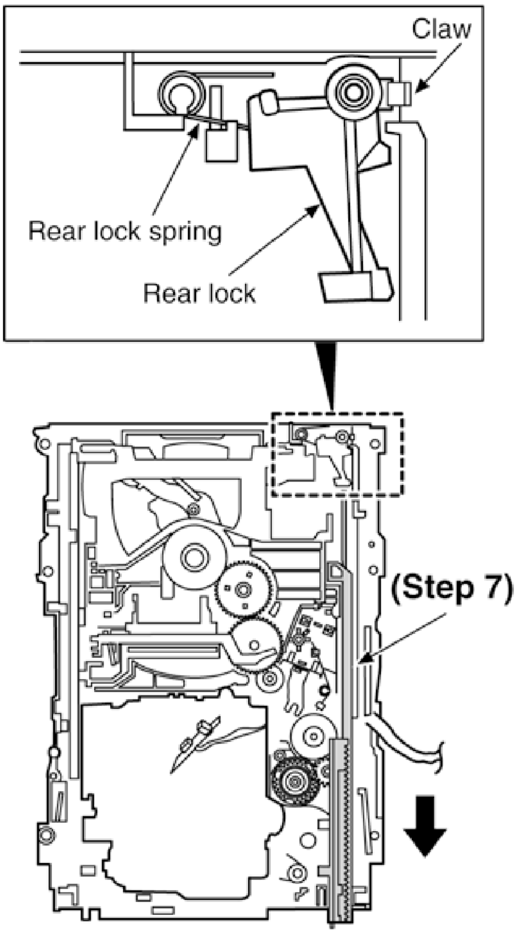
cam gear.


Slide plate 2
Connection lever
Slide plate 1
Mechanism base
Trapezoid tooth
Traverse relay gear

Step 4 Install the slide plate 2 to the mechanism base, and then match to the connection lever.
Step 5 Install the slide plate 1 to the mechanism base, and then match to the connection leve and align the trapezoid tooth of traverse relay gear with the slide plate 1.


Spindle base unit
②
①

Step 6 Install the spindle base unit. (First, slide plate 1.)


Claw
Rear lock spring
Rear lock
(Step 7)

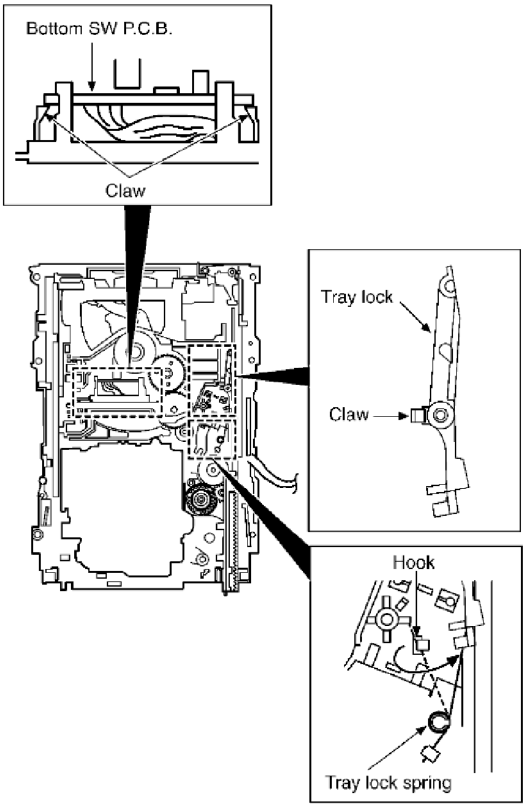
(Front side)

Step 7 Move the slide plate 1 to forward fully.

Step 8 Install the rear lock. (The claw should be latched.)

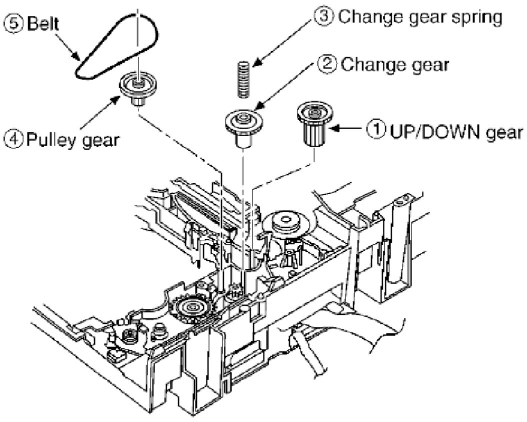
Step 9 Install the Spindle Position P.C.B.. (The claw should be latched.)

Step 10 Install the tray lock. (The claw should be latched.)

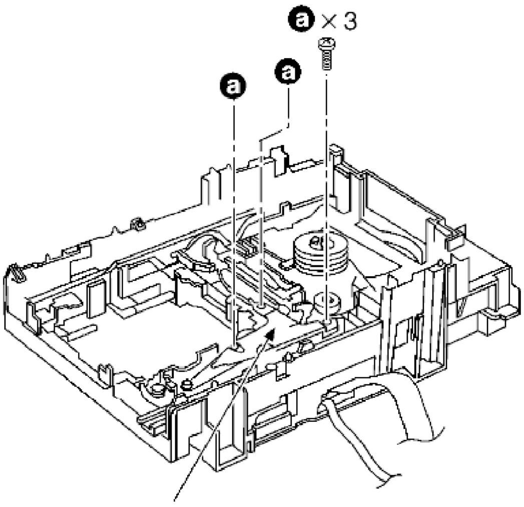

Bottom SW P.C.B.
Claw
Tray lock
Claw
Hook
Tray lock spring

Step 11 Remove the tray lock spring from hook,and then latch to the tray lock.

Step 12 Install the UP/DOWN gear, change gear, change gear spring, pulley gear and belt in the order of (1) - (5).


⑤Belt
③Change gear spring
②Change gear
①UP/DOWN gear
④Pulley gear

Step 13 Install the gear holder, and then tighten the screw (a).



Gear holder

Step 14 Install the tray base, traverse ass’y, mechanism cover and upper plate.
[Operation check after servicing]
Check the proper operation of following items with gear and hexagonal screwdriver.

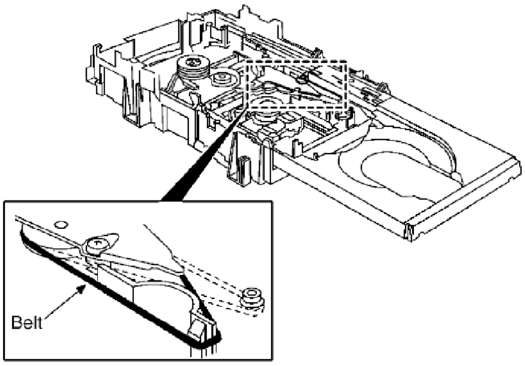
1. Open/close of tray base.

2. Moving the tray base to the stock side.

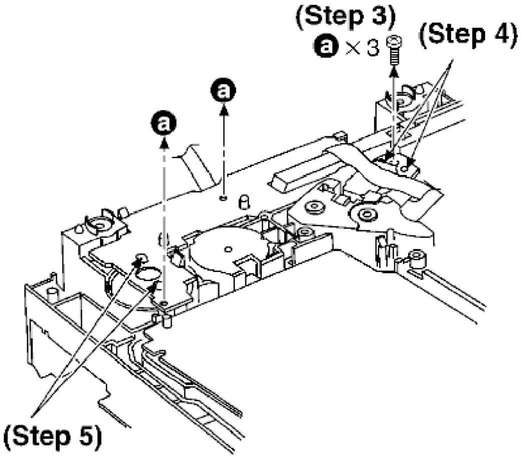
3. UP/DOWN operation of spindle base unit.

4. UP/DOWN operation of traverse ass’y.

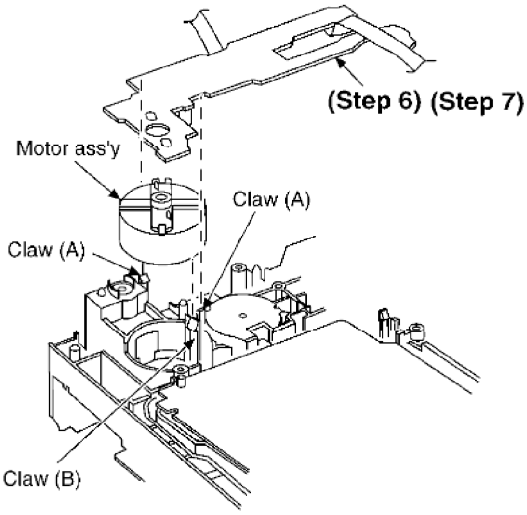
10.7.4. Replacement for the motor ass’y



Step 1 Install the belt temporarily.
NOTE:
Take care not apply the grease to the belt.
Step 2 Upset the CD loading unit.
Step 3 Remove 3 screws.


(Step 3)
ⓐ × 3
(Step 4)
ⓐ
ⓐ
(Step 5)

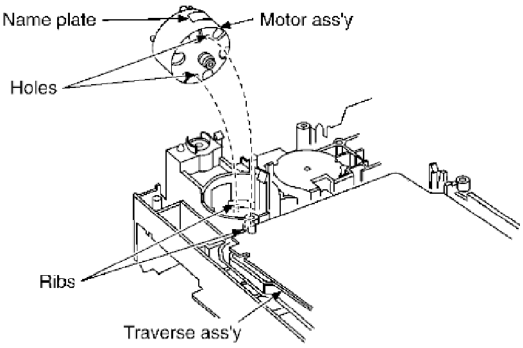
Step 4 Unsolder the plunger terminals (2 points).
Step 5 Unsolder the motor terminals (2 points).


(Step 6) (Step 7)
Motor ass'y
Claw (A)
Claw (A)
Claw (B)

Step 6 Release the 2 claws (A), and then remove the Motor P.C.B.
Step 7 Release the claw (B), and then remove the motor ass'y.
[Notice for motor ass'y installation]

1. Locate the name plate of motor to the traverse ass'y.

2. Align the hole of motor with the ribs.


Name plate
Motor ass'y
Holes
Ribs
Traverse ass'y

10.8. Replacement for the pinch roller ass'y and head block

- Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel

- Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid

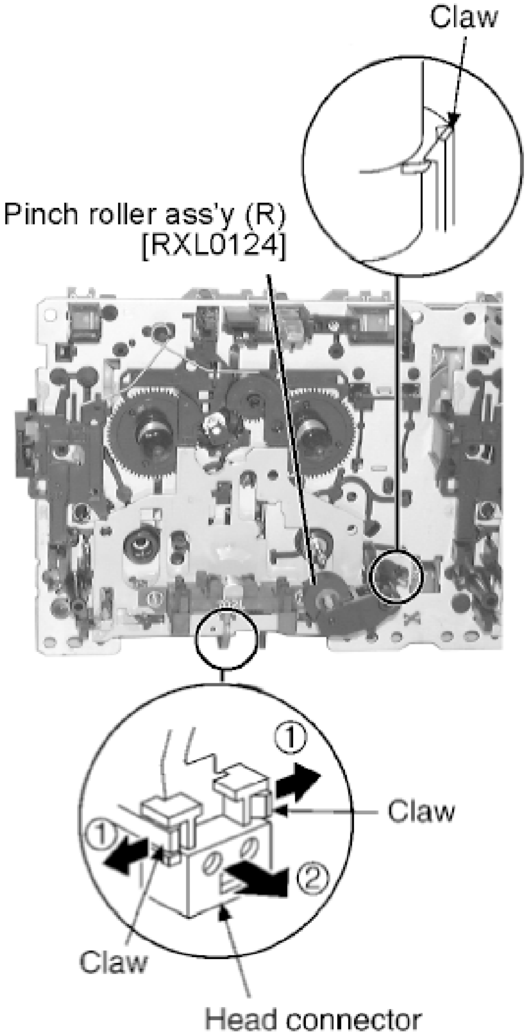
- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of the CD Mechanism Unit

- Follow the (Step 1) of Item 10.4 - Disassembly the Main P.C.B. & Transformer P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.5 - Disassembly of the Panel P.C.B. & Tact Switch P.C.B.

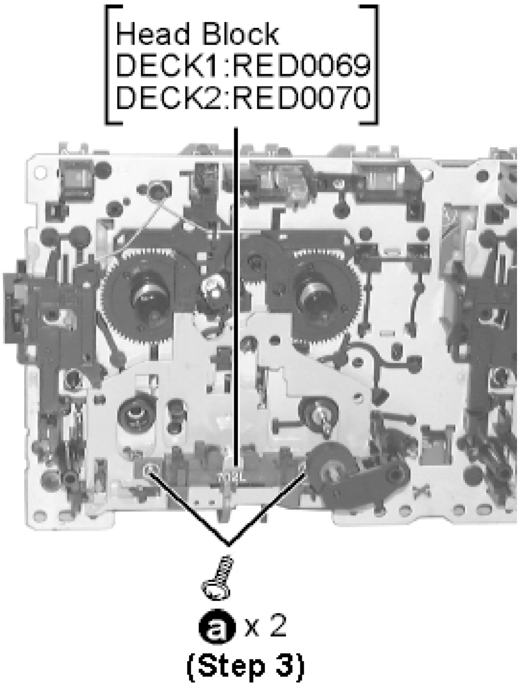
- Follow the (Step 1) - (Step 5) of Item 10.6 - Disassembly for the Deck Mechanism Unit & Deck P.C.B.

*** The mechanism as shown below is for DECK1. For the one of DECK 2, perform the same procedures.**



Step 1 Release the 2 claws, and then remove the pinch roller (R), (F).

Step 2 Release ther 2 claws, and then remove the head connector.



Step 3 Remove 2 screws.

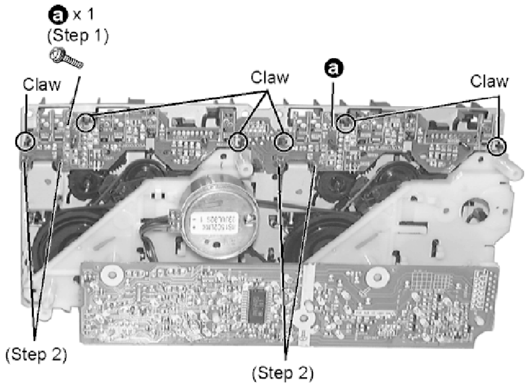
10.9. Replacement for the Deck motor ass’y, capstan belt A, capstan belt B and winding belt

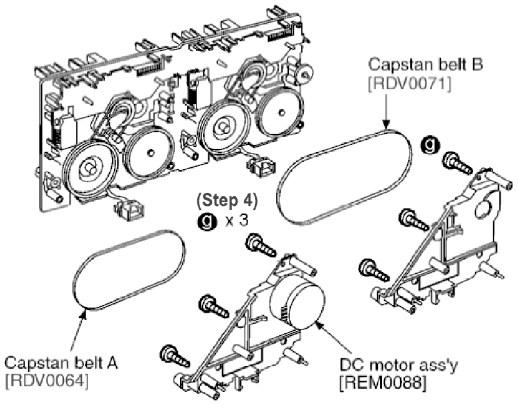
- **Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel**
- **Follow the (Step 1) - (Step 5) of Item 10.2.1 - Disassembly for CD Lid**
- **Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of the CD Mechanism Unit**
- **Follow the (Step 1) of Item 10.4 - Disassembly the Main P.C.B. & Transformer P.C.B.**
- **Follow the (Step 1) - (Step 2) of Item 10.5 - Disassembly of the Panel P.C.B. & Tact Switch P.C.B.**
- **Follow the (Step 1) - (Step 5) of Item 10.6 - Disassembly for the Deck Mechanism P.C.B.**

Step 1 Release the 2 claws, and then remove the head connector.

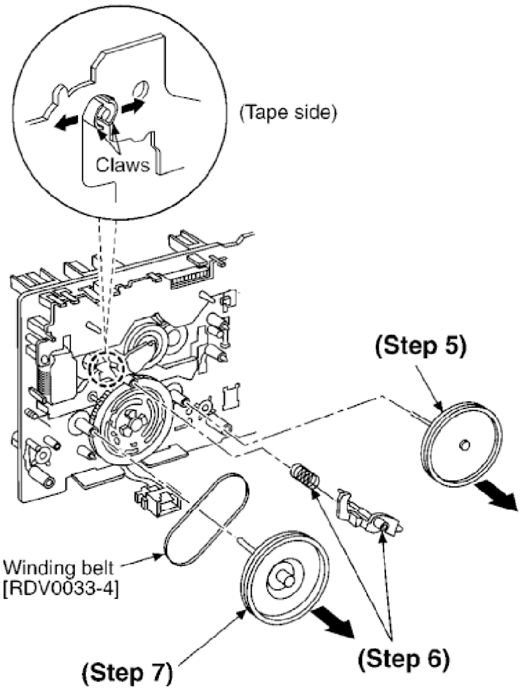
Step 2 De-solder plunger point.

Step 3 Remove the Deck Mechanism P.C.B.


a x 1
(Step 1)
Claw
Claw
a
Claw
(Step 2)
(Step 2)


Capstan belt B
[RDV0071]
g
(Step 4)
g x 3
Capstan belt A
[RDV0064]
DC motor ass'y
[REM0088]

Step 4 Remove 3 screws.


(Tape side)
Claws
(Step 5)
Winding belt
[RDV0033-4]
(Step 7)
(Step 6)

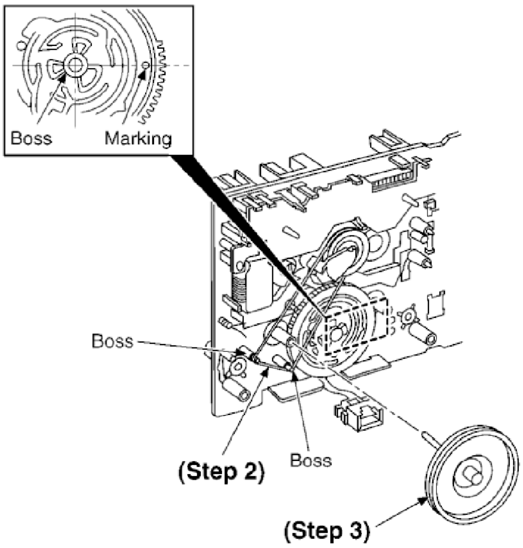
Step 5 Remove the flywheel R.

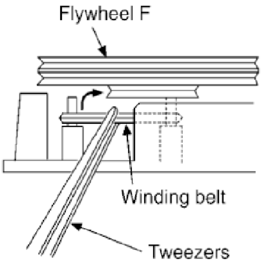
Step 6 Release the claw of tape side, and then remove the winding lever and spring.

Step 7 Remove the flywheel F.

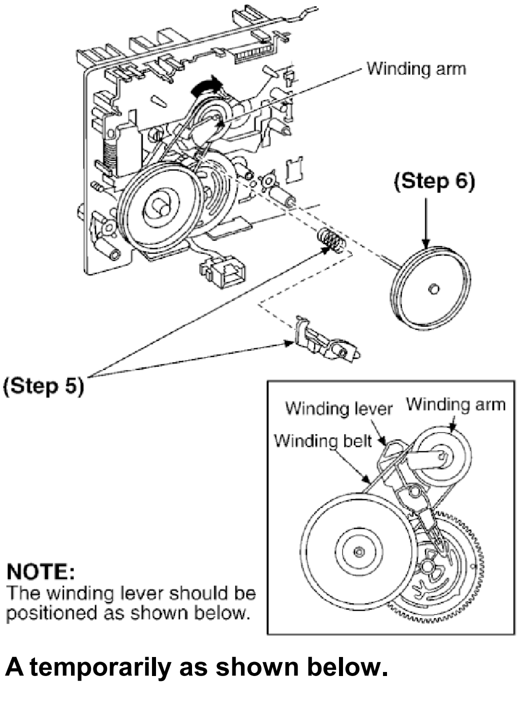
[Installation of the belt]

Step 1 The boss and marking should be positioned horizontally.


Boss
Marking
Boss
(Step 2)
Boss
(Step 3)

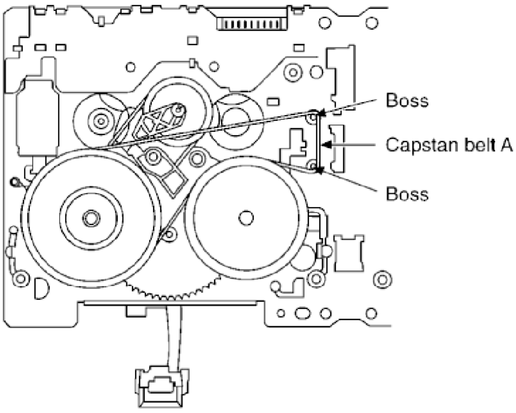

Flywheel F
Winding belt
Tweezers

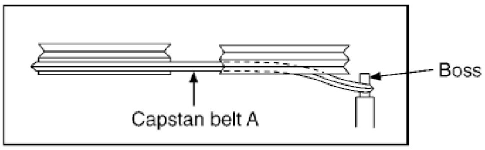
Step 2 Put the winding belt on the pulley temporarily.
Step 3 Install the flywheel F.
Step 4 Put the winding belt on the flywheel F.
Step 5 Install the winding lever and spring while pressing the winding arm in the direction of arrow.
Step 6 Install the flywheel R.


Winding arm
(Step 6)
(Step 5)
Winding lever
Winding arm
Winding belt

NOTE:
The winding lever should be positioned as shown below.

Step 7 Put the capstan belt A temporarily as shown below.

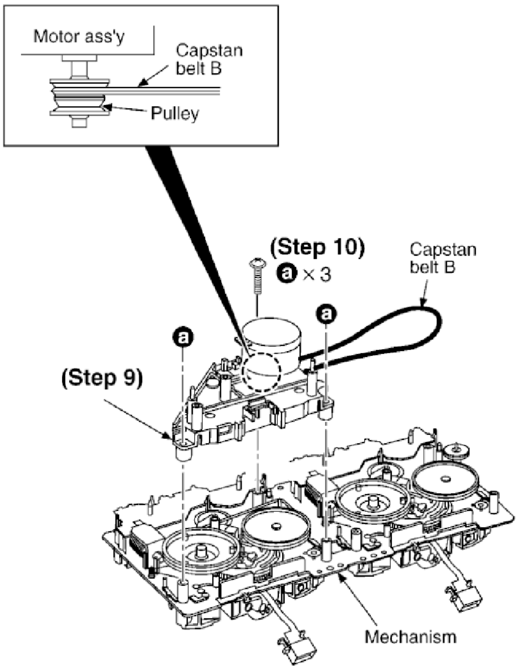

Boss
Capstan belt A
Boss


Boss
Capstan belt A

(Side view)

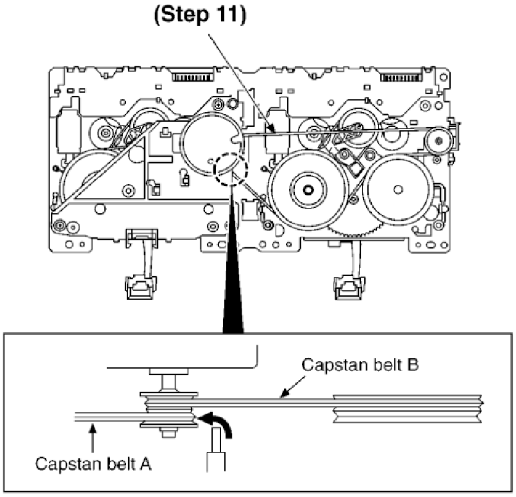
Step 8 Put the capstan belt B on the motor ass'y pulley.

Step 9 Install the sub chassis to the mechanism, and then tighten screws.


Motor ass'y
Capstan belt B
Pulley
(Step 10)
a × 3
Capstan belt B
a
a
(Step 9)
Mechanism

Step 10 Remove 3 screws.

Step 11 Put the capstan belt B as shown below.

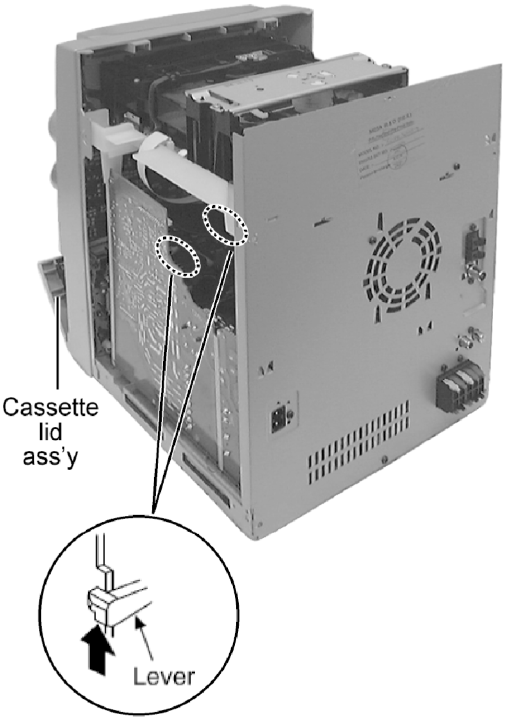

(Step 11)
Capstan belt B
Capstan belt A

Step 12 Put the capstan belt A on the motor ass'y pulley.

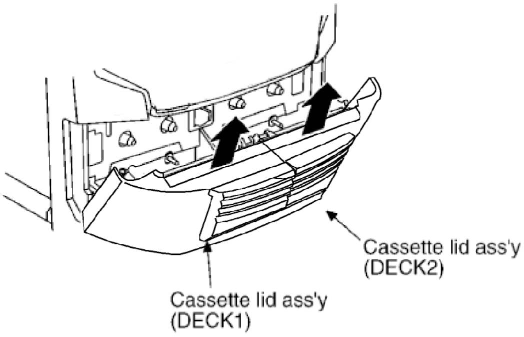
10.10. Replacement for the cassette lid ass'y

- Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel

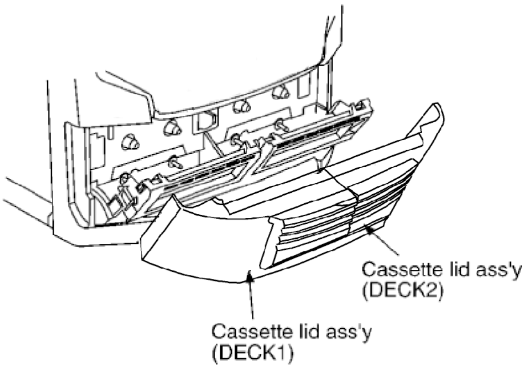
Step 1 Push the lever upward, open the cassette lid ass'y. (For DECK1 and DECK2)


Cassette lid ass'y
Lever

Step 2 Lift up the cassette lid ass'y in the direction of arrow. (For DECK1 and DECK2).


Cassette lid ass'y
(DECK2)
Cassette lid ass'y
(DECK1)

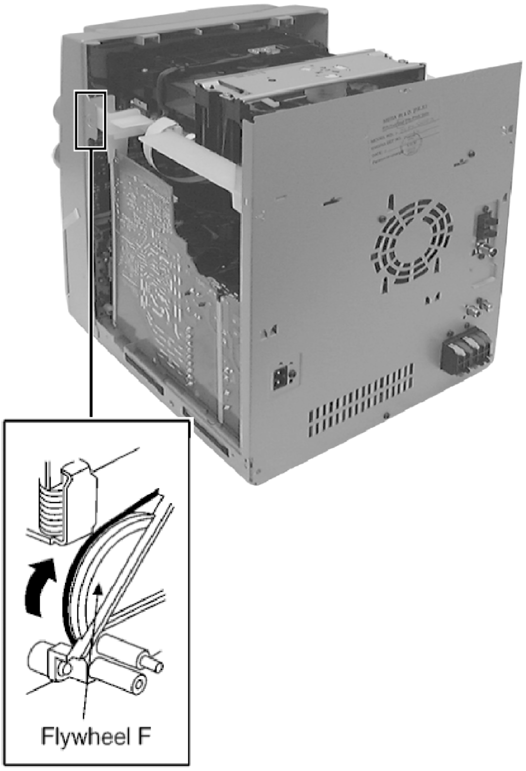
Step 3 Remove the cassette lid ass'y. (For DECK1 and DECK2).


Cassette lid ass'y
(DECK2)
Cassette lid ass'y
(DECK1)

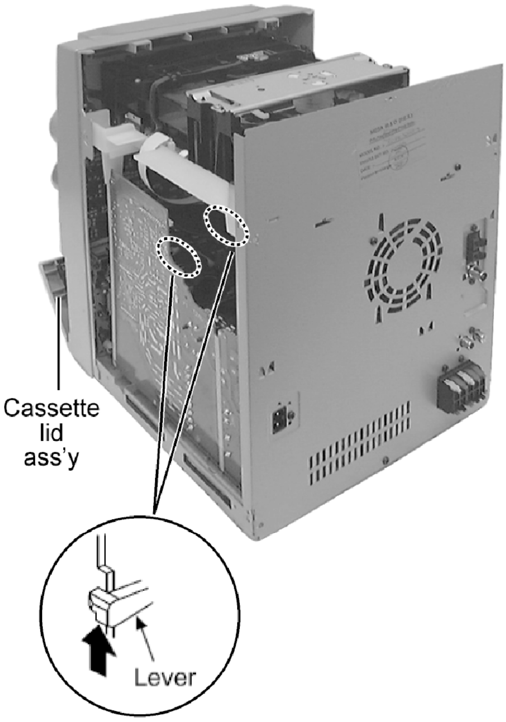
10.11. Measure for tape trouble

- Follow the (Step 1) - (Step 2) of Item 10.2 - Disassembly of Top Cabinet and Rear Panel

Step 1 If a cassette tape cannot be removed from the deck since the tape is caught by the capstan or pinch roller during playback or recording, rotate the flywheel F in the direction of the arrow to remove the tape.



Step 2 Push the lever upward and open the cassette lid ass’y. Take the cassette tape off.


Cassette
lid
ass’y
Lever

11. Service Position

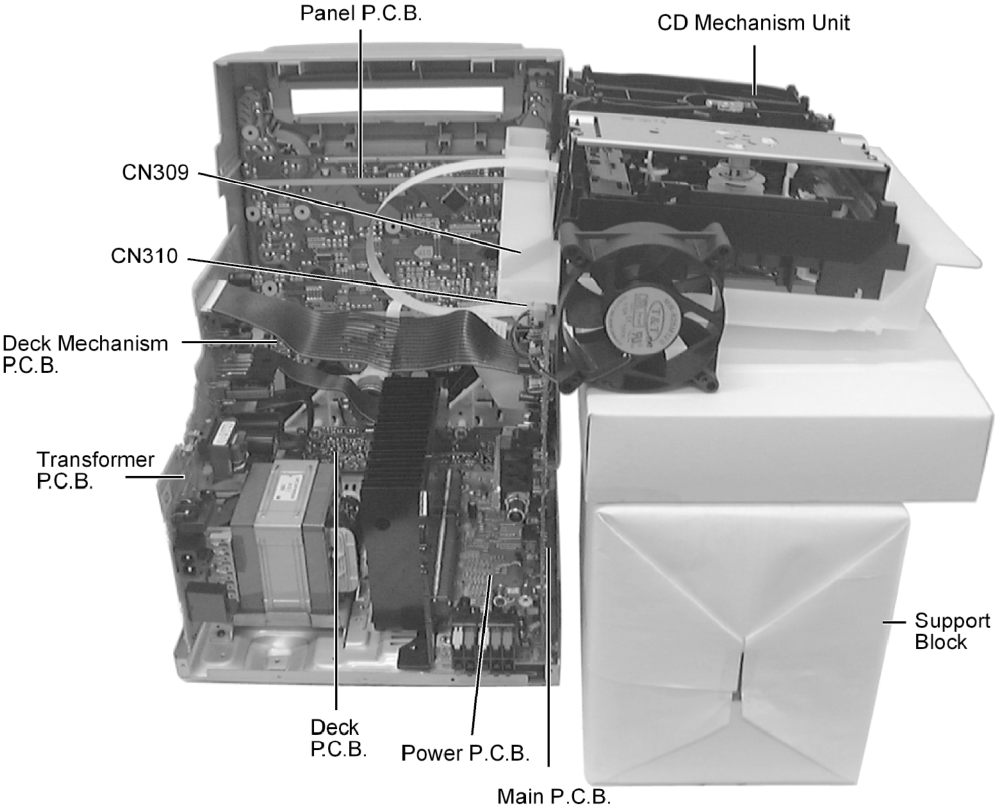
11.1. Checking Procedure

Note:

For the disassembling procedure, see Section 10.

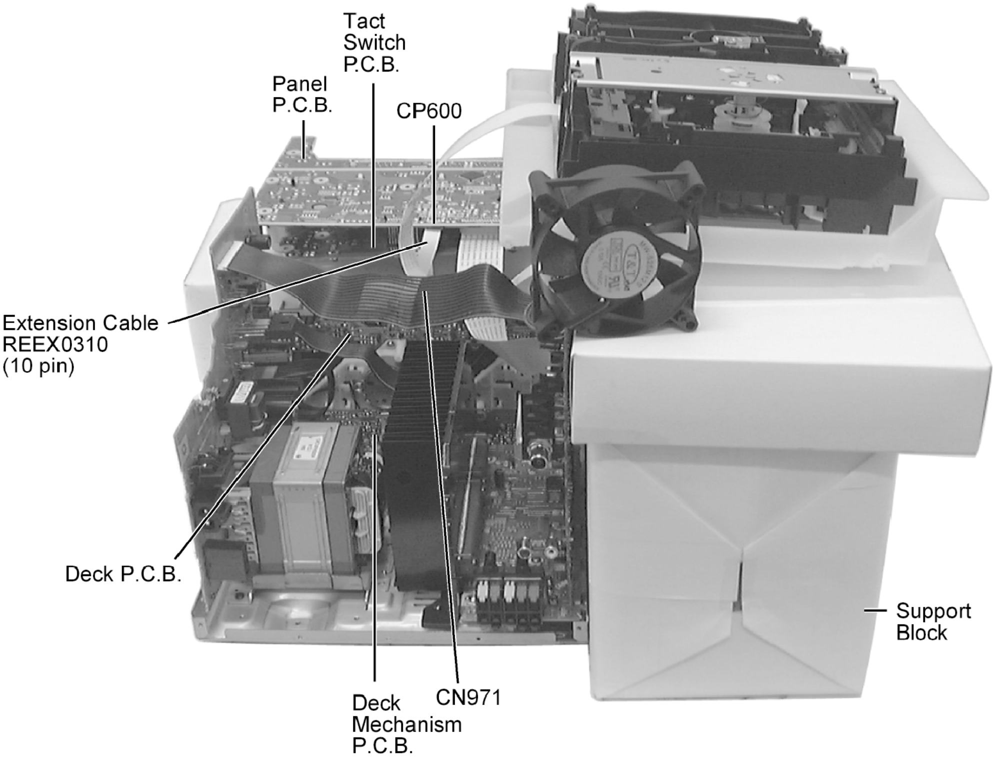
11.2. Checking the Main P.C.B., Power P.C.B. and Transformer P.C.B.

1. **Remove Top Cabinet and Rear Panel.**
2. **Remove CD Lid.**
3. **Remove CD Mechanism Unit.**
4. **Connect FFC board (CN309 & CN310) from CD Mechanism Unit.**


Panel P.C.B.
CD Mechanism Unit
CN309
CN310
Deck Mechanism P.C.B.
Transformer P.C.B.
Support Block
Deck P.C.B.
Power P.C.B.
Main P.C.B.

11.3. Checking the Panel, Tact Switch, Deck & Deck Mechanism P.C.B.

1. **Remove Top Cabinet and Rear Panel.**
2. **Remove CD Lid.**
3. **Remove CD Mechanism Unit.**
4. **Remove volume knob at front panel.**
5. **Remove Panel P.C.B. & Tact Switch P.C.B.**
6. **Remove Deck Mechanism Unit.**
7. **Use the extension cable (REEX0310 - 10 Pins) to reconnect (CP600) Panel P.C.B. and (CN971) Deck Mechanism P.C.B.**


Tact
Switch
P.C.B.
Panel
P.C.B.
CP600
Extension Cable
REEX0310
(10 pin)
Deck P.C.B.
Support
Block
Deck
Mechanism
P.C.B.
CN971

Service Tools	
Extension FFC Panewl P.C.B. - Deck Mechanism P.C.B.	REEX0310 (10 Pins)

12. Description of Error Code

12.1. Abnormality detection for Deck Mechanism block

No.	Abnormal Items	Error Display	Method of Detection
1	MODE SW abnormal	H01	Normal operation during mecha transition, MOD abnormal is memorized. The content of abnorma be confirmed in the abnormal detection mode ex in the later section.
2	REC INH SW abnormal	H02	The contect of abnormality can be confirmed in abnormal detection mode explained in the later
3	HALF SW abnormal	H03	The contect of abnormality can be confirmed in abnormal detection mode explained in the later
4	Reel pulse abnormal	F01	The contect of abnormality can be confirmed in abnormal detection mode explained in the later

12.2. Abnormality detection for CD/Changer block

No.	Abnormal Items	Error Display	Method of Detection
1	REST SW abnormal	F15	Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the REST SW not detected within the specified time and shall memorized.
2	Transmission error between CD servo LSI and micon	F26	Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the selection to CD and SENSE=’H’ is detected and SENSE=’ detected within a fail safe time (20ms) after sys command transmission was sent.
3	CLAMP SW abnormal	F16	Refer to CR20 control specification section 5-2 [ERROR CODE] table M-0A error is detected.
4	BOTTOM SW abnormal	F17	Refer to CR20 control specification section 5-2 [ERROR CODE] table M-09 error is detected.
5	POSITION SW abnormal	F27	Refer tp CR20 control specification section 5-2 [ERROR CODE] table M-05 ~ M-08 error is detec
6	SW1 abnormal	F28	Refer to CR20 control specification section 5-2 [ERROR CODE] table M-02 ~ M-08 error is detec
7	SW2 abnormal	F29	Refer to CR20 control specification section 5-2 [ERROR CODE] table M-02 ~ M-08 error is detec
8	OPEN SW abnormal	H15	Refer to CR20 control specification section 5-2 [ERROR CODE] table M-01 error is detected.

12.3. Power Supply related error detection

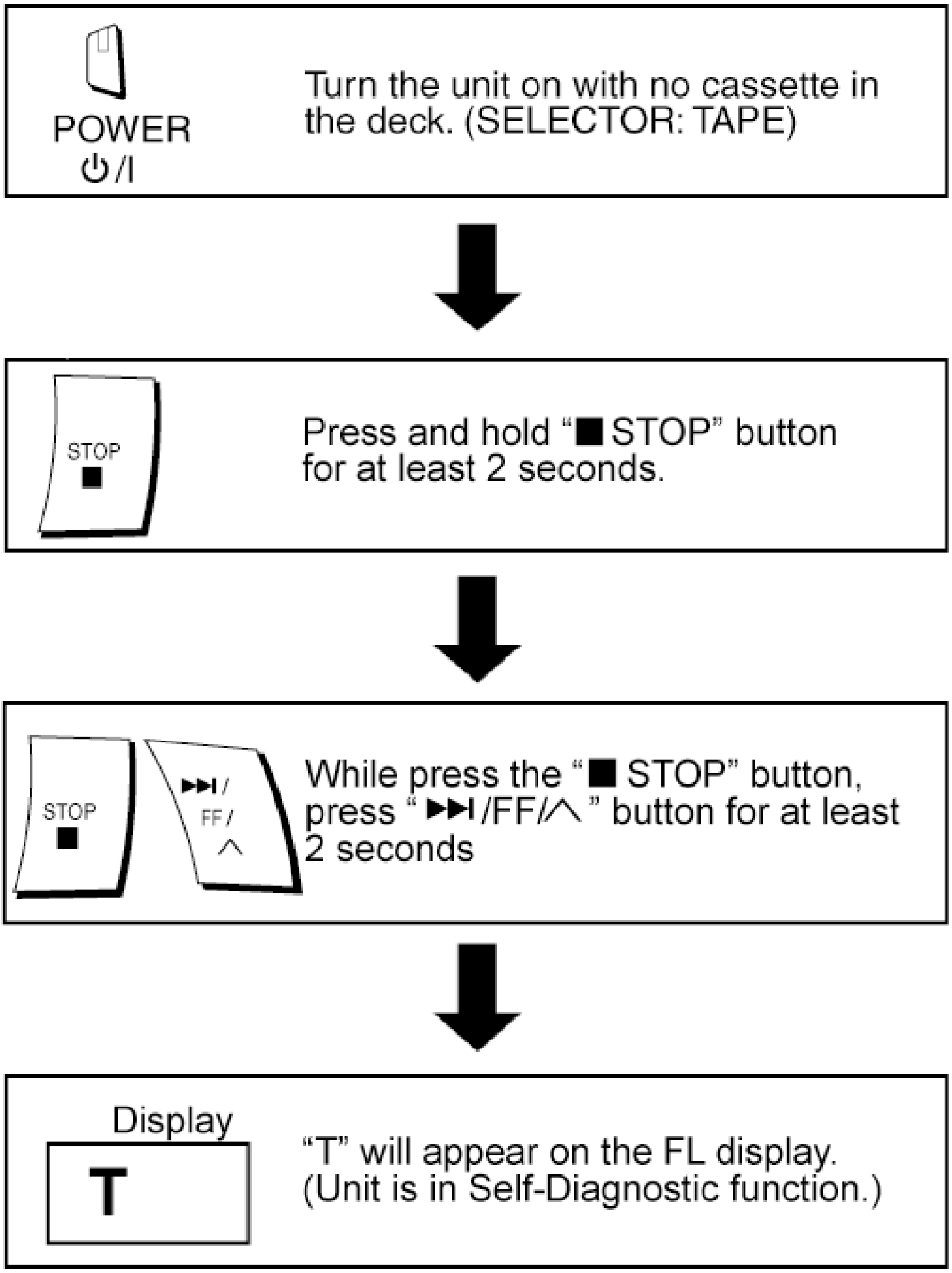
No.	Abnormal Items	Error Display	Method of Detection
1	POWER AMP output abnormal	F61	During normal operation, if DCDET 1/2 become normal POWER OFF process shall not be execu PCNT shall be switched to ‘L’ immediately. GO shall not be displayed and the error display F61 displayed instead. 2 seconds after the F61 display, ECONO shall b ‘L’ and FL display shall be turned off. The error content shall be memorized when the abnormality occurs and can be displayed in the mecha self-diagnostic mode described later.

13. Self-Diagnostic Function

13.1. Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, if a problem occurs, will display an error code corresponding to the problem.
Use this function when performing maintenance on the unit.

13.2. How to enter the Self-Diagnostic Function



Turn the unit on with no cassette in the deck. (SELECTOR: TAPE)

Press and hold "■ STOP" button for at least 2 seconds.

While press the "■ STOP" button, press "▶▶I/FF/∧" button for at least 2 seconds

"T" will appear on the FL display. (Unit is in Self-Diagnostic function.)

13.3. Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

1. Press "TAPE, DECK 1/2" to select Deck 2.

2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.

3. Press "FAST FORWARD MEMORY" (Tape will be stop after 2 seconds)

4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press “REVERSE FM MODE/BP” (Tape will be stop after 2 seconds)
6. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
7. Press “PLAY/TUNE/TIME ADJ UP” (After TPS function, tape will stop automatically)
8. Press “REC/STOP” (Tape will not move)
9. Press “STOP/TUNE MODE” to indicate Error code.

   - If several problem exist, error code will change each time when “ ■ /STOP” is pressed.
     (e.g. H01 → H03 → F01 .....etc.)

10. Press “TAPE, DECK 1/2” to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

13.4. CD Mechanism Test (F15, F26, F16, F17, F27, F28, F29, H15)

1. Press “CD”.
2. Press “OPEN/CLOSE (1)” and place a CD.
3. Press “OPEN/CLOSE (1)” to close the tray.
4. Press “OPEN/CLOSE (5)” and wait until the tray is open.
5. Press “OPEN/CLOSE (1)” and remove the CD.
6. Press “OPEN/CLOSE (1)” to close the tray.
7. Press “ ■ /STOP” to indicate Error Code.

   - If several problem exist, error code will change each time when “ ■ /STOP” is pressed. (e.g. F15 → F26 → F16 ....etc).

13.5. To clear all Error code

1. Press “STOP/TUNE MODE” button for 5 seconds.
2. FL indicator shows “CLEAR” for 1 second and change to “T”.

13.6. How to get out from Self-Diagnostic function

1. Press “Power” button OFF.

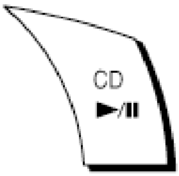
13.7. Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

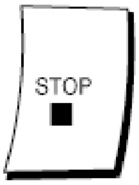
14. CD Test Mode Function

This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

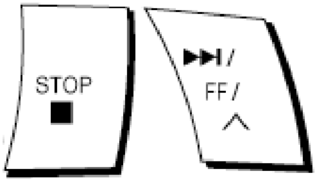
14.1. How to set CD test mode



Press CD.



Press and hold "■STOP" button for at least 2 seconds.



While press the "■ STOP" button, press " ⏭/FF/∧ " button for at least 2 seconds

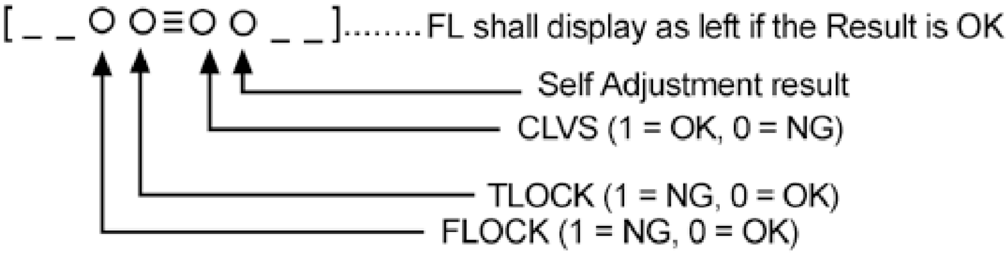
Display

CD TEST

"CD TEST" will appear on the FL display.
(Unit is in CD test mode.)

14.2. CD Automatically Adjustment result indication

Under CD test mode, pressing the numeric key '0' on the remote controller will display the auto adjustment result. FLOCK, TLOCK and CLVS status shall be shown as below:


[_ _ O O≡O O _ _]........FL shall display as left if the Result is OK
Self Adjustment result
CLVS (1 = OK, 0 = NG)
TLOCK (1 = NG, 0 = OK)
FLOCK (1 = NG, 0 = OK)

During the above display, executing CD PLAY will display auto adjustment result for CD PLAY mode.

15. Measurements and Adjustments

15.1. Cassette Deck Section

- **Measurement Condition**
- **Make sure head, capstan and press roller are clean.**
- **Judgeable room temperature 20 ± 5 °C (68 ± 9°F)**
- **Measuring instrument**
- **EVM (DC Electronic voltmeter)**
- **Digital frequency counter**
- **Test Tape**
- **Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT**

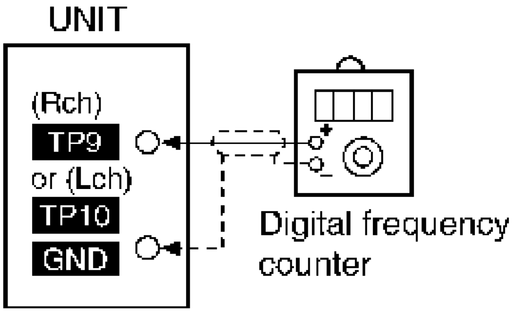
15.1.1. Tape Speed Adjustment (Deck 1/2)

1. **Set the tape edit button to "NORMAL" position.**
2. **Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.**
3. **Adjust Motor VR (DECK 2) for the output value shown below.**

Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

4. **After alignment, assure that the output frequency of the DECK 1 FWD are within ±60 Hz of the value of the output frequency of DECK 2 FWD.**

Fig.1



15.1.2. Bias and Erase Voltage Check

1. **Set the unit "AUX" position.**
2. **Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to**

“REC” mode (use “ ● REC/STOP” key).

3. Measure and make sure that the output is within the standard value.

Bias voltage for Deck 2	**14±4mV (Normal)**
Erase voltage for Deck 2	**80mV (Normal)**

Fig.2

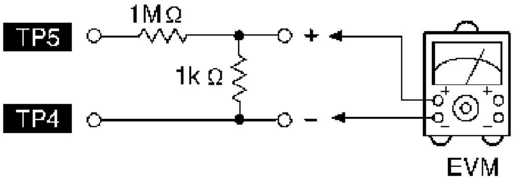
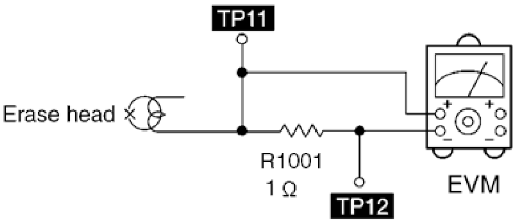

TP5
1MΩ
1kΩ
TP4
+
-
EVM

Fig.3

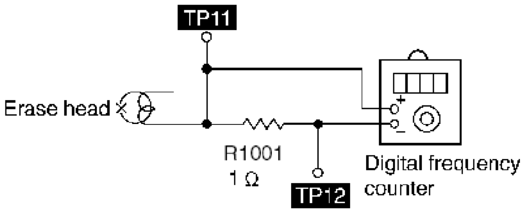

TP11
Erase head
R1001
1Ω
TP12
EVM

15.1.3. Bias Frequency Adjustment (Deck 1/2)

1. Set the unit to “AUX” position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to “REC” mode (● use “REC/STOP” key).
3. Adjust L1002 so that the output frequency is within the standard value.

Standard Value: 97 ±8 kHz

Fig.4


TP11
Erase head
R1001
1Ω
TP12
Digital frequency counter

15.2. Tuner Section

15.2.1. AM-IF Alignment

1. Connect the instrument as shown in Fig.5.

2. Set the unit to AM mode.
3. Apply signal as shown in Fig. 5 from AM-SG.
4. Adjust Z102 so that the output frequency is maximized in Fig. 6.

Fig.5

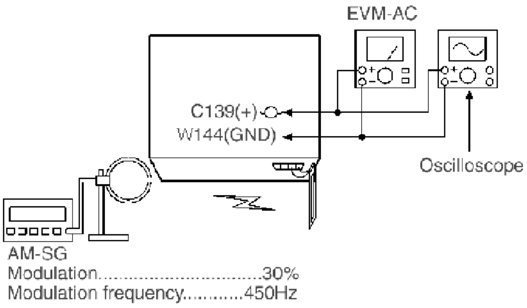
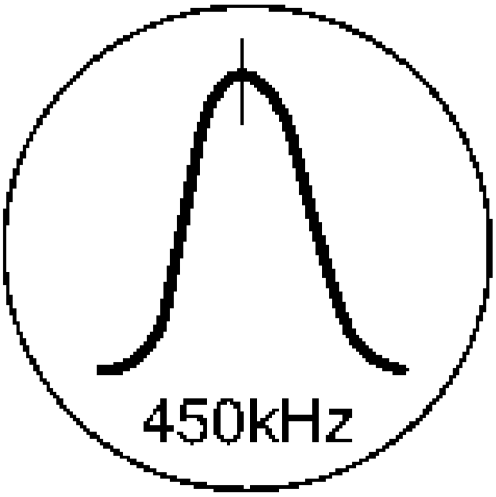

EVM-AC
C139(+)
W144(GND)
Oscilloscope
AM-SG
Modulation..................................30%
Modulation frequency............450Hz

Fig.6



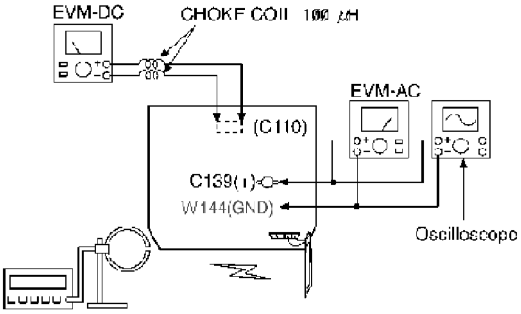
15.2.2. AM RF Adjustment

1. Connect the instrument as shown in Fig. 7.
2. Set the unit to AM mode.
3. Set AM-SG to 520kHz.
4. Receive 520kHz in the unit.
5. Adjust Z101 (OSC) so that the EVM-AC is maximized.
6. Set AM-SG to 600Hz.
7. Receive 600Hz in the unit.
8. Adjust Z101 (ANT) so that the EVM-SG is maximized.
9. Set AM-SG to 520kHz.

10. Receive 520kHz in the unit.

11. Adjust Z101 (OSC) so that the EVM-DC value is with 1.1±0.5V.

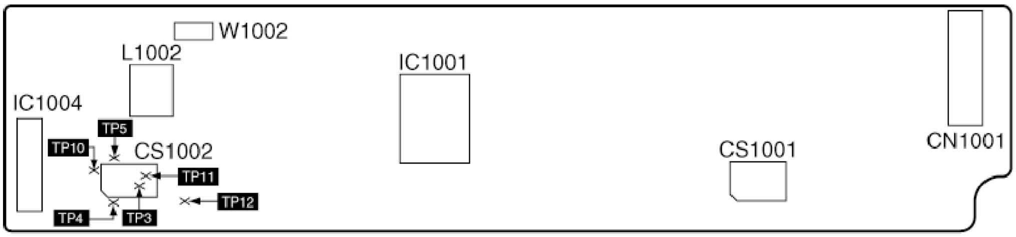
Fig.7


EVM-DC
CHOKE COIL 100 μH
(C110)
EVM-AC
C139(+)
W144(GND)
Oscilloscope

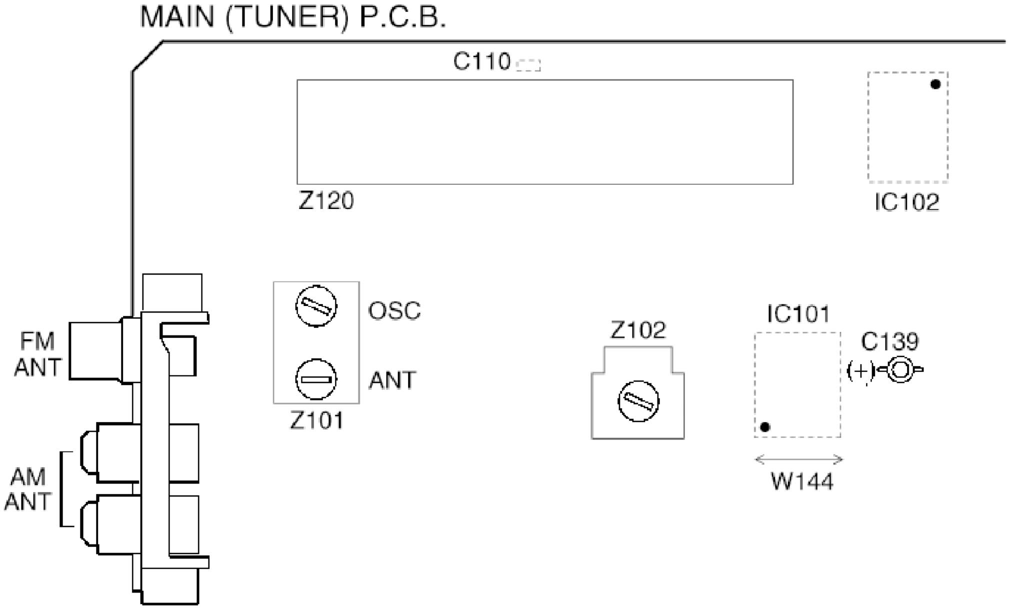
AM-SG
Modulation.............................. 30%
Modulation frequency......... 400Hz

15.3. Alignment Points

15.3.1. Cassette Deck Section


W1002
L1002
IC1001
IC1004
TP5
TP10
CS1002
TP11
TP12
TP4
TP3
CS1001
CN1001

15.3.2. Adjustment Point


MAIN (TUNER) P.C.B.
C110
Z120
IC102
FM ANT
AM ANT
OSC
ANT
Z101
Z102
IC101
C139
(+)
W144

16. Block Diagram

17. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

SW1

: Push switch

SW2

: Push switch

SW3

: Open switch

SW4

: CD switch

SW5

: Load switch

S601

: Open/ Close switch

S602

: CD 1 switch

S603

: CD 2 switch

S604

: CD 3 switch

S605

: CD 4 switch

S606

: CD 5 switch

S607

: Left switch

S608

: Down switch

S609

: Right switch

S610
: Up switch

S612
: Power switch

S613
: SSEQ switch

S614
: Preset switch

S615
: Rec switch

S616
: Deck 1/2 switch

S617
: Menu switch

S618
: Enter switch

S619
: Index switch

S620
: Delete switch

S621
: Sub woofer switch

S701
: Rest switch

S901
: Rew switch

S902
: Tuner switch

S903
: CD switch

S904
: FF switch

S905
: Stop switch

S906
: Deck 2 Open switch

S907
: Tape switch

S908
: AUX switch

S909
: Deck 1 Open switch

S910
: Display switch

S951
: Mode switch

S952
: Half switch

S971
: Mode switch

S972
: Half switch

S975
: Recinh_F switch

VR600
: VR Volume Jog

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveformsdepending upon the internal impedance of the tester or the measuring unit.

No mark : Playback
<< >> : Rec
< > : FM
(( )) : CD

- Importance safety notice :

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. Whenreplacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

17.1. (A) CD Servo Circuit

17.2. (B) Tuner/Main Circuit

17.3. (B) Main Circuit

17.4. (C) Panel Circuit & (D) Tact Switch Circuit

17.5. (E) Transformer Circuit

17.6. (F) CD Detect Circuit, (G) Spindle Position Circuit, (H) CD Loading Circuit & (M) Power (2) Circuit

17.7. (I) Power Circuit

17.8. (J) Deck Circuit & (K) Mechanism Circuit

18. Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

18.1. (A) CD Servo P.C.B. (Side A & Side B)

18.2. (B) Main/ Tuner P.C.B.

18.3. (C) Panel P.C.B.

18.4. (D) Tact Switch P.C.B. & (M) Power (2) P.C.B.

18.5. (E) Transformer P.C.B.

18.6. (F) CD Detect P.C.B., (G) Spindle Position P.C.B., (H) CD Loading P.C.B. & (L) Tuner Pack P.C.B.

18.7. (I) Power (1) P.C.B.

18.8. (J) Deck P.C.B. & (K) Deck Mechanism P.C.B.

19. Wiring Connection Diagram

20. Illustration of IC's, Transistors and Diodes

21. Terminal Function of IC's

21.1. IC701 (AN22004A-NF) Head Amplifier

Pin No.	Mark	I/O	Function
1	LPD	I	APC Amp input
2	LD	I	APC Amp output
3	VCC	I	Power supply
4	EQSW	I	Focus signal input terminal 1
5	RFOUT	I	RF summing output
6	RFIN	I	AGC input
7	CAGC	O	AGC Control
8	ARF	O	AGC output
9	CEA	I	Detector's input
10	3TOUT	I	3 T output
11	DCDET	I	Capacitor for HPF amp connection
12	OFTCONT	O	Capacitor 4 OFTR connection
13	BDO	I	BDO output ("H": Drop_out)
14	OFTR	O	OFTR output
15	/RFDET	O	NRFDET output ("L" : detection)
16	LDON	O	Power-down input
17	GND	-	GND
18	EQ8ST	O	OFTR/BDO
19	VREF	-	VREF
20	TEN	I	TE Amp input
21	TEOUT	I	TE Amp output
22	FEN	I	FE Amp input
23	FEOUT	O	FE Amp output

Pin No.	Mark	I/O	Function
24	GCTL	O	GCTL
25	FBAL	I/O	Focus Balance Control
26	TBAL	O	Tracking balance Control
27	E	I	Tracking balance control
28	F	I	Focus balance control
29	D	I	
30	B	I	
31	C	I	
32	A	I	

21.2. IC702 (MN6627934CH) Servo Processor/ Digital Signal Processor/ Digital Filter/ D/A Converter

Pin No.	Mark	I/O	Function
1	DRVDD	-	Power supply for DRAM interface (Pin 2 to 19 and 80)
2	D0	I/O	DRAM data I/O signal 0
3	D1	I/O	DRAM data I/O signal 1
4	NEW	O	DRAM write enable signal
5	NRAS	I/O	DRAM RAS control signal
6	D2	I/O	DRAM data I/O signal 2
7	D3	I/O	DRAM data I/O signal 3
8	NCAS0	O	DRAM CAS control signal 0
9	A10	O	DRAM CAS control signal 10
10	A8	O	DRAM address signal 8
11	A7	O	DRAM address signal 7
12	A6	O	DRAM address signal 6
13	A5	O	DRAM address signal 5
14	A4	O	DRAM address signal 4

Pin No.	Mark	I/O	Function
15	**A9**	**O**	**DRAM address signal 9**
16	**A0**	**O**	**DRAM address signal 0**
17	**A1**	**O**	**DRAM address signal 1**
18	**A2**	**O**	**DRAM address signal 2**
19	**A3**	**O**	**DRAM address signal 3**
20	**DVSS2**	**-**	**Ground for digital circuits**
21	**DVDD2**	**-**	**Power supply for digital cirfcuits**
22	**SPOUT**	**O**	**Spindle motor drive signal output (absolute value output)**
23	**TRVP**	**O**	**Traverse drive output (positive polarity output)**
24	**TRVM**	**O**	**Traverse drive output (negative porarity output)**
25	**TRP**	**O**	**Tracking drive output (positive polarity output)**
26	**TRM**	**O**	**Tracking drive output (negative polarity output)**
27	**FOP**	**O**	**Focus drive output (positive polarity output)**
28	**FOM**	**O**	**Focus drive output (negative polarity output)**
29	**IOVDD1**	**-**	**Power supply for I/O**
30	**TBAL**	**O**	**Tracking balance adjustment output**
31	**FBAL**	**O**	**Focus balance adjustment output**
32	**FE**	**I**	**Focus error signal input (analog input)**
33	**TE**	**I**	**Tracking error signal input (analog input)**

Pin No.	Mark	I/O	Function
34	RFENV	I	RF envelope signal input (analog input)
35	OFT	I	Off-track signaL input High: Off-track)
36	NRFDET	I	RF detection signal input Low: detection
37	BDO	I	Dropout signal input High: Dropout
38	LDON	O	Laser ON signal output High: ON
39	ARF	I	RF signal input
40	IREF	I	Reference current input
41	ADPVCC	I	Voltage input for supply voltage monitor (analog input)
42	DSLF	O	DSL loop filter
43	RFSW	I	DSL loop filter
44	PLLF	O	PLL loop filter
45	PLLFO	O	PLL loop filter
46	AVDD2	-	Power supply for analog circuits (for DSL, PLL and A/D)
47	AVSS2	-	Ground for analog circuits (for DSL, PLL and A/D)
48	OUTL	O	L-ch audio output
49	AVSS1	-	Ground for analog circuits (for audio output stage)
50	OUTR	O	R-ch audio output
51	AVDD1	-	Power supply for analog circuits (for audio output stage)
52	DVSS3	-	Ground for digital circuits
53	DVDD3	-	Power supply for digital circuit
54	TMOD2	I	Test input pin Low: Normal
55	FLAG	O	Flag signal output
56	EXT2	I/O	Expansion I/O port 2
57	EXT0	I/O	Expansion I/O port 0

Pin No.	Mark	I/O	Function
58	EXT1	I/O	Expansion I/O port 1
59	IOVDD2	I	Power supply for I/O
60	TX	O	Digital audio interface output signal
61	MCLK	I	Micro controller command clock signal input (Latches data at the rising adge)
62	MDATA	I	Micro controller command data signal input
63	MLD	I	Micro controller command load signal input Low: Load
64	BLKCK	O	Subcode block clock signal (f=75 Hz in normal-speed playback mode)
65	PWMSEL	I	PWM output mode selection input Low: Direct High: 3- state
66	SMCK	O	4.2336 MHz/ 8.4672 MHz clock signal output
67	SBCK	I	Clock input for subcode serial output
68	STAT	O	Status signal output
69	NRST	I	Reset input Low: Reset
70	SPPOL	O	Spindle motor drive signal output (polarity output)
71	PMCK	O	88.2-kHz clock signal output
72	DQSY	O	Pack signal output for CD-TEXT data
73	TXTD	O	CD-TEXT data signal output
74	TXTCK	O	External clock signal input for CD-TEXT register
75	NTEST	I	Test input pin High: Normal

Pin No.	Mark	I/O	Function
76	OUT X2	O	Crystal oscillator circuit output pin (f= 16.9355 MHz, 33.8688 MHZ)
77	IN X1	I	Crystal oscillator circuit output pin (f= 16.9355 MHz, 33.8688 MHZ)
78	DVSS1	I	Ground for digital circuits
79	DVDD1	I	Power supply for digital circuits
80	MON	O	Monitor for evaluation

21.3. IC703 (AN8739SBTE2) Focus Coil/ Tracking Coil/ Traverse Motor / Spindle Motor Driver

Pin No.	Mark	I/O	Function
1	/RST	O	RESET output terminal
2	NC	-	N.C.
3	IN2	I	Motor drive (2) input
4	PC2	I	Turntable motor drive signal (“L” :ON)
5	NC	-	N.C.
6	IN1	I	Motor driver (1) input
7	PVCC1	I	Power supoply (1) for driver
8	PGND1	-	Ground connection (1) for driver
9	NC	-	N.C.
10	D1-	O	Motor driver (1) reverse-action output
11	D1+	O	Motor driver (1) forward-action output
12	D2-	O	Motor driver (2) reserse-action output
13	D2+	O	Motor driver (2) forward-action output
14	D3-	O	Motor driver (3) reverse-action output
15	D3+	O	Crystal oscillating circuit input (f = 16.9344MHz)
16	D4-	O	Motor driver (4) reverse-action output

Pin No.	Mark	I/O	Function
17	D4+	O	Motor driver (4) forward-action output
18	NC	-	N.C.
19	PGND2	-	Ground connection (2) for driver
20	PVCC2	-	Power supply (2) for driver
21	VCC	-	Power supply terminal
22	VREF	-	Reference voltage input
23	IN4	I	Motor driver (4) input
24	IN3	I	Motor driver (3) input
25	RSTIN	I	Reset terminal
26	NC	-	N.C.

21.4. IC305 (C1CBJF000018) System Microprocessor

Pin No.	Mark	I/O	Function
1	LM_L	O	Level meter left (for AK320) /SPEANA Input (for AK520) NC (for AK220)
2	LM_R	O	Level meter right (for AK320)/ NC (for AK520/220)
3	NC	-	No connection
4	RDS_DAT	I	RDS data input (for AK320)/ NC for AK520/220)
5	RDS_CLK	I	RDS clock input (for AK320) NC (for AK520/220)
6	MBP1	O	Microcomputer beat proof output 1 (CONTROL)
7	MBP2	O	Micro computer beat proof output 2 (CONTROL)
8	BYTE	-	External data bus width select input (Connect to ground)
9	CNVSS/ EFP_CNVSS	-	Flash mode terminal (Connect to ground)
10	XC_IN	-	32.768 kHz sub clock
11	XC_OUT	-	32.768 kHz sub clock

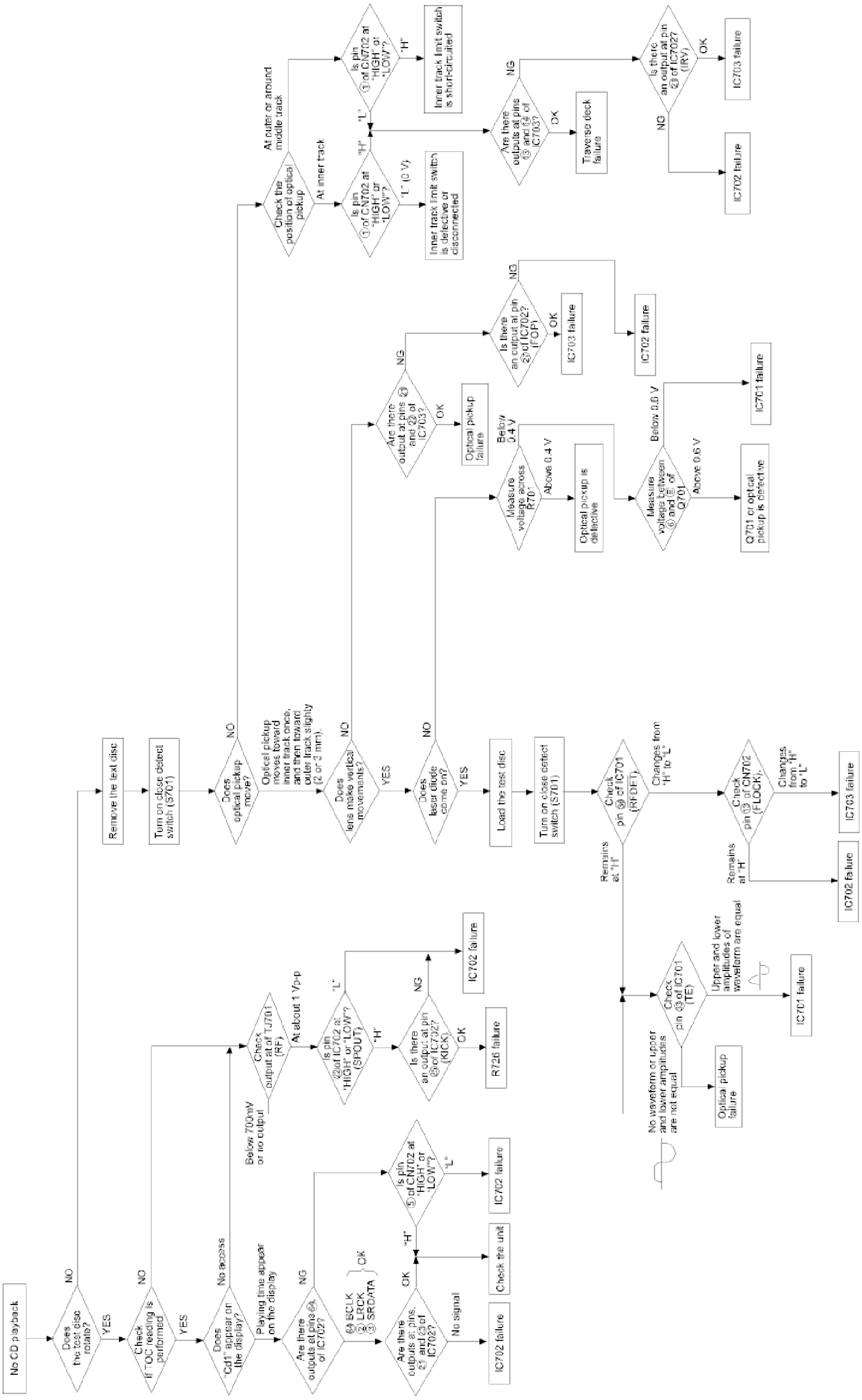
Pin No.	Mark	I/O	Function
12	/RESET/ EFP_RESET	I	Reset input (ACTIVE L)
13	X_OUT	O	10 MHz main clock
14	Vss	-	Ground (0V)
15	XIN	-	10 MHz main clock
16	Vcc	-	Power supply (+5V)
17	/NMI	-	Connect to Vcc (+5V)
18	RMT	I	Remote control input
19	BLKCK	I	CD block clock input (Inverted)
20	SYNC	I	AC failure detect input
21	ST/DO	I	Tuner IF data/ stereo input
22	SD	I	Tuner signal detect input
23	PLLCK	O	Tuner PLL clock output
24	PLLDA	O	Tuner PLL data output
25	PLLCE	O	Tuner PLL Chip Enable
26	ASP_DAT	O	ASP data
27	ASP_CLK	O	ASP clock
28	NC	-	No connection
29	SW_LV1	-	Sub Woofer Level 1 (AK520 only)/ No connection (AK320/ 220)
30	SW_LV2	-	Sub Woofer Level 2 (AK520 only)/ No connection (AK320/ 220)
31	NC	-	No connection
32	NC	-	No connection
33	NC	-	No connection
34	NC	-	No connection
35	NC	-	No connection
36	NC	-	No connection
37	NC	-	No connection
38	NC	-	No connection
39	MUTE_H	O	HIC mute
40	MUTE_A	O	Audio mute
41	EE_CS/EFP_ /EPM	O	EEPROM chip select
42	EE_CLK	O	EEPROM clock
43	EE_DAT	I/O	EEPROM data
44	NC	-	No connection
45	NC	-	No connection

Pin No.	Mark	I/O	Function
46	PCONT/ EFP_/CE	O	Main transformer control output
47	DCDET	I	DC detect input
48	SP_A	O	Speana control output A
49	SP_B	O	Speana control output B
50	SP_C	O	Speana control output C
51	NC	-	No connection
52	HALF_1	I	Deck 1 half playback input
53	MODE_1	I	Deck 1 mode playback input
54	PHOTO_2	I	Rotation detection signal (Deck 2)
55	PHOTO_1	I	Rotation detection signal (Deck 1)
56	PLG1	O	Deck 1 plunger control
57	PLG2	O	Deck 2 plunger control
58	MTR	O	Deck motor control (“H” for motor ON)
59	REC	O	H when record circuit is operating
60	DECK1_H	O	H when DECK 1 P/B head is selected
61	NC	-	No connection
62	Vcc	-	Power supply (+5V)
63	NC	-	No connection
64	Vss	-	Ground (0V)
65	DMT	O	Deck mute at mecha transition (“L” for MUTE ON)
66	BP1	O	AM beatproof 1 output (“H” for BP1 ON)
67	V_JOG_A	I	Volume Jog A
68	V_JOG_B	I	Volume Jog B
69	EX1_CLK	O	I/O expander clock output (for AK620) (Subwoofer and Jog LED control)
70	EX1_DAT	O	I/O expander data output (for AK520) (Subwoofer and jog LED control)
71	FL_RESET	I	Reset input (ACTIVE L)
72	FL_CS	I/O	FL driver chip select

Pin No.	Mark	I/O	Function
73	FL_DOUT	O	Serial data to FL driver (Output)
74	FL_CLK	I/O	Serial clock to FL driver
75	/CD	O	CD power control (Active low)
76	SSEQ_LED	O	Super Sound EQ LED
77	CD_RST	O	CD reset output
78	STATUS	I	CD Servo LSI status input
79	MLD	O	CD command load output
80	MDATA	O	CD command data output
81	MCLK	O	CD command clock output
82	/RESTSW	I	CD limit switch input for the most inner point (Active Low)
83	CHG_HLF	O	Changer half drive output
84	CHG_CW	O	Changer motor clockwise output
85	CHG_CCW	O	Changer motor counterclockwise output
86	CHG_SW1	I	CD changer switch 1 input
87	CHG_SW2	I	CD changer switch 2 input
88	CHG_PLR	O	Changer plunger output
89	CHG_AD2	I	Changer AD detecton input (Position/Bottom)
90	CHG_AD1	I	Changer AD detecton input (Open/Clamp)
91	DECK2	I	DECK CONDITION INPUT 2 (R_INHF/MODE2/R_INHR/HALF2)
92	KEY3	I	KEY3 INPUT
93	KEY2	I	KEY2 INPUT
94	KEY1	I	KEY1 INPUT
95	REG_2	I	Region setting 2
96	AVss	-	Analog power supply input (Connect to GND)
97	REG_1	I	Region setting 1
98	VREF	-	Reference for A-D (5V)
99	AVcc	-	Analog power supply input

Pin No.	Mark	I/O	Function
100	**DEMO SELECTOR**	**I**	**(H= default demo on, L= default demo off.)**

22. Troubleshooting Guide


No CD playback
Does the test disc rotate?
NO
YES
Remove the test disc
Turn on close detect switch (S701)
Does optical pickup move?
NO
Optical pickup moves toward inner track once, and then toward outer track slighty (2 or 3 mm).
Check the position of optical pickup
At outer or around middle track
At inner track
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
"L"
Inner track limit switch is short-circuited
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
"L" (0 V)
Inner track limit switch is defective or disconnected
Are there outputs at pins ⑬ and ⑭ of IC703?
NG
OK
Traverse deck failure
Is there an output at pin ㉓ of IC702? (TRV)
OK
NG
IC703 failure
IC702 failure
Does lens make vertical movements?
NO
YES
Are there output at pins ㉗ and ㉒ of IC703?
NG
OK
Optical pickup failure
Is there an output at pin ㉗ of IC702? (FOP)
OK
NG
IC703 failure
IC702 failure
Does laser diode come on?
NO
YES
Measure voltage across R701
Below 0.4 V
Above 0.4 V
Optical pickup is defective
Measure voltage between ⑥ and ⑧ of Q701
Below 0.6 V
Above 0.6 V
IC701 failure
Q701 or optical pickup is defective
Load the test disc
Turn on close detect switch (S701)
Check pin ㊳ of IC701 (RFDET)
Changes from "H" to "L"
Remains at "H"
Check pin ⑬ of CN702 (FLOCK)
Changes from "H" to "L"
Remains at "H"
IC703 failure
IC702 failure
Check pin ㊸ of IC701 (TE)
Upper and lower amplitudes of waveform are equal
IC701 failure
No waveform or upper and lower amplitudes are not equal
Optical pickup failure
Check if TOC reading is performed
NO
YES
Does "Cd1" appear on the display?
No access
Playing time appear on the display
Check output at of TJ701 (RF)
At about 1 Vp-p
Below 700mV or no output
Is pin ㉒ of IC702 at "HIGH" or "LOW"? (SPOUT)
"L"
"H"
IC702 failure
Is there an output at pin ㉖ of IC702? (KICK)
NG
OK
R726 failure
Are there outputs at pins ㊿ of IC702?
NG
(54) BCLK
② LRCK
③ SRDATA
OK
Is pin ⑤ of CN702 at "HIGH" or "LOW"?
"L"
"H"
IC702 failure
Are there outputs at pins, ㉑ and ㉓ of IC702?
OK
No signal
Check the unit
IC702 failure

23. Parts Location and Replacement Parts List

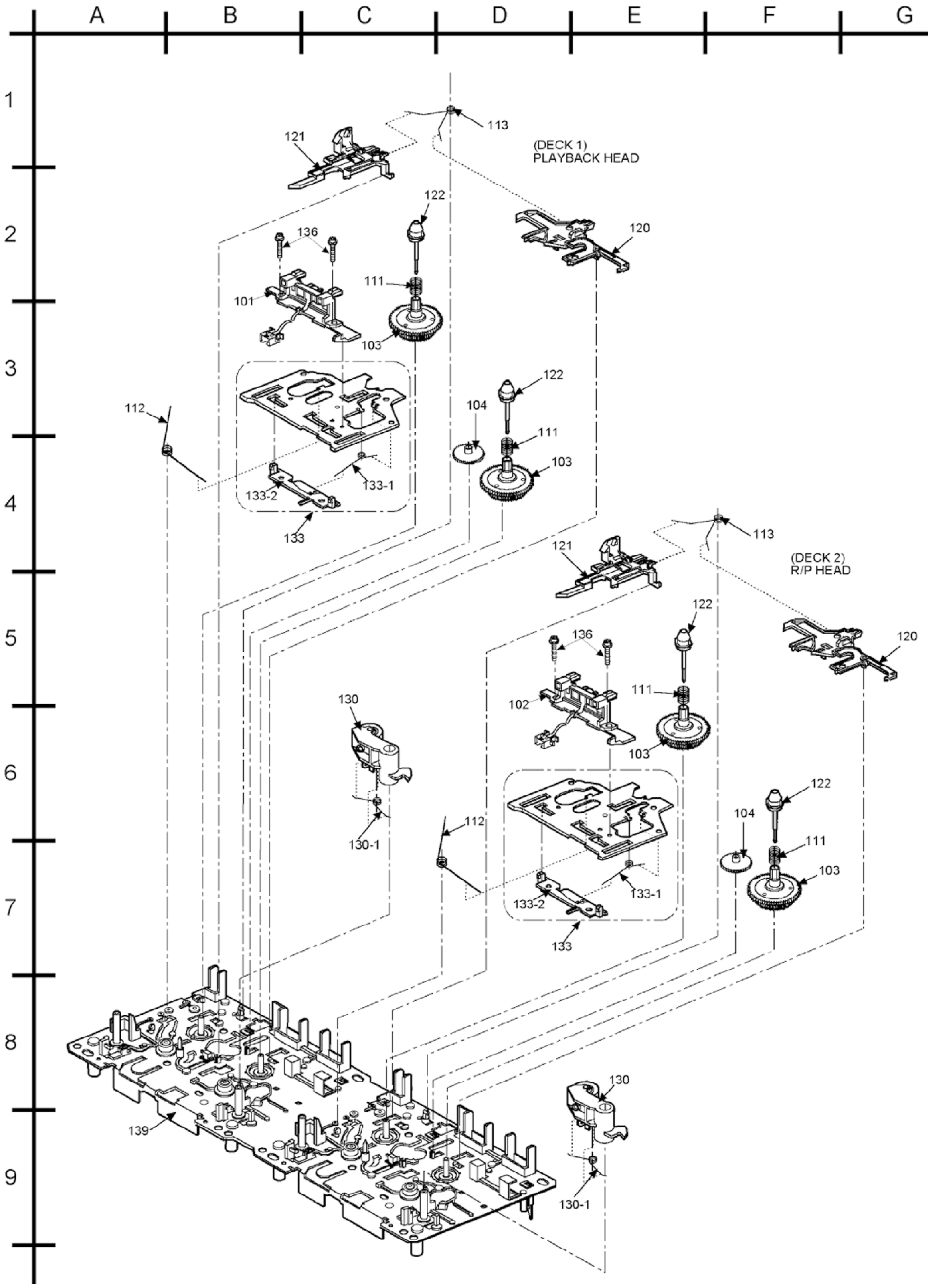
Notes:

- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
  When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on “Precaution of Laser Diode”.
  ACHTUNG:
- Die Lasereinheit nicht zerlegen.
- Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.
- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availabilityis dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.
- The “(SF)” mark denotes the standard part.
- Reference for O/I book languages are as follows:

Ar:	Arabic	Du:	Dutch	It:	Italian	Sp	Spanish
Cf:	Canadian French	En:	English	Ko:	Korean	Sw:	Swedish
Cz:	Czech	Fr:	French	Po:	Polish	Co:	Traditio Chinese
Da:	Danish	Ge:	German	Ru:	Russian	Cn:	Simplifie Chinese
Pe:	Persian						

23.1. Deck Mechanism (RAA4502-S)

23.1.1. Deck Mechanism Parts Location


A
B
C
D
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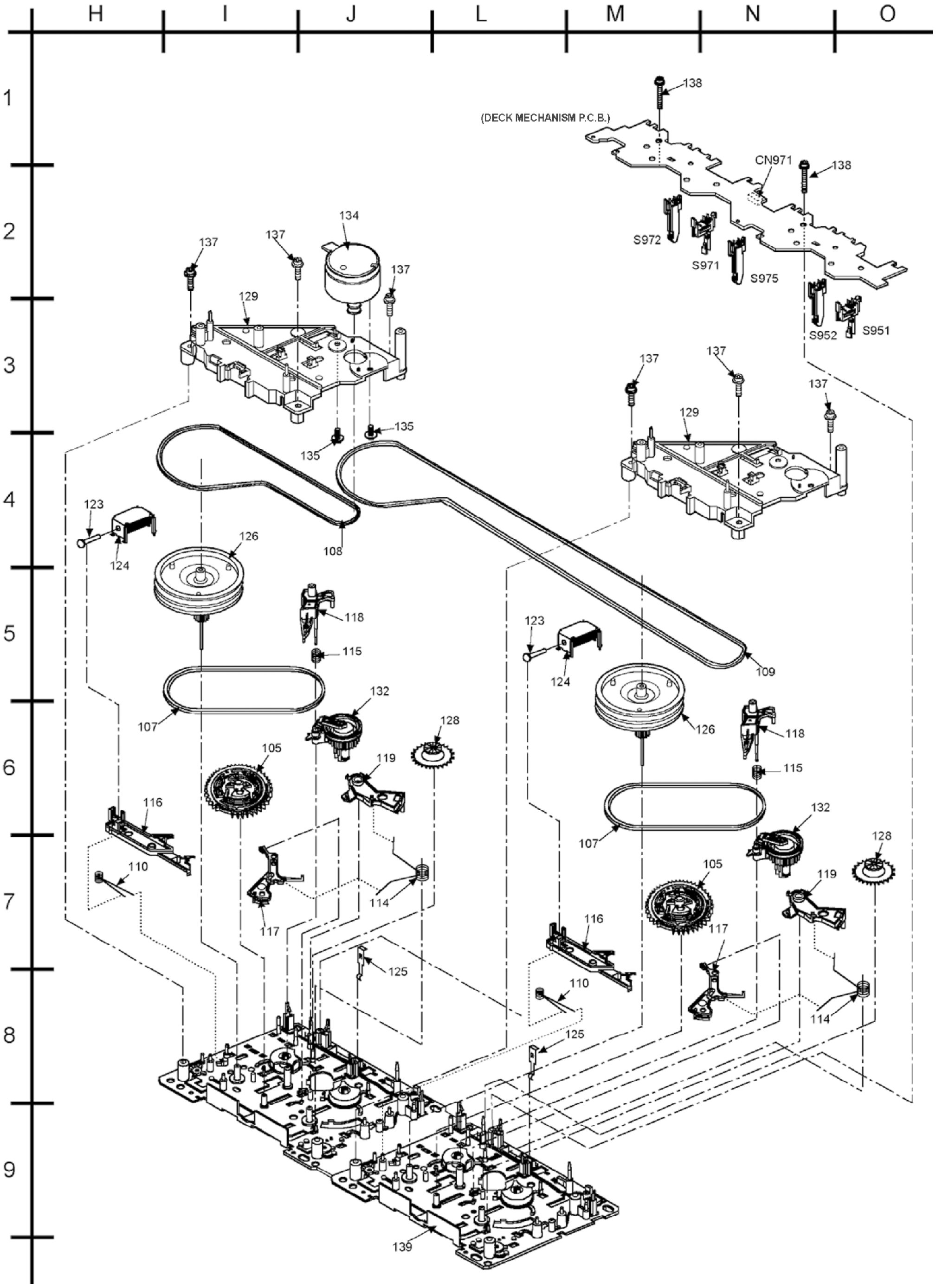
G
(DECK 1)
PLAYBACK HEAD
133-2
133-1
(DECK 2)
R/P HEAD
130-1
133-2
133-1
130-1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138
(DECK MECHANISM P.C.B.)
CN971
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S972
S971
S975
S952
S951
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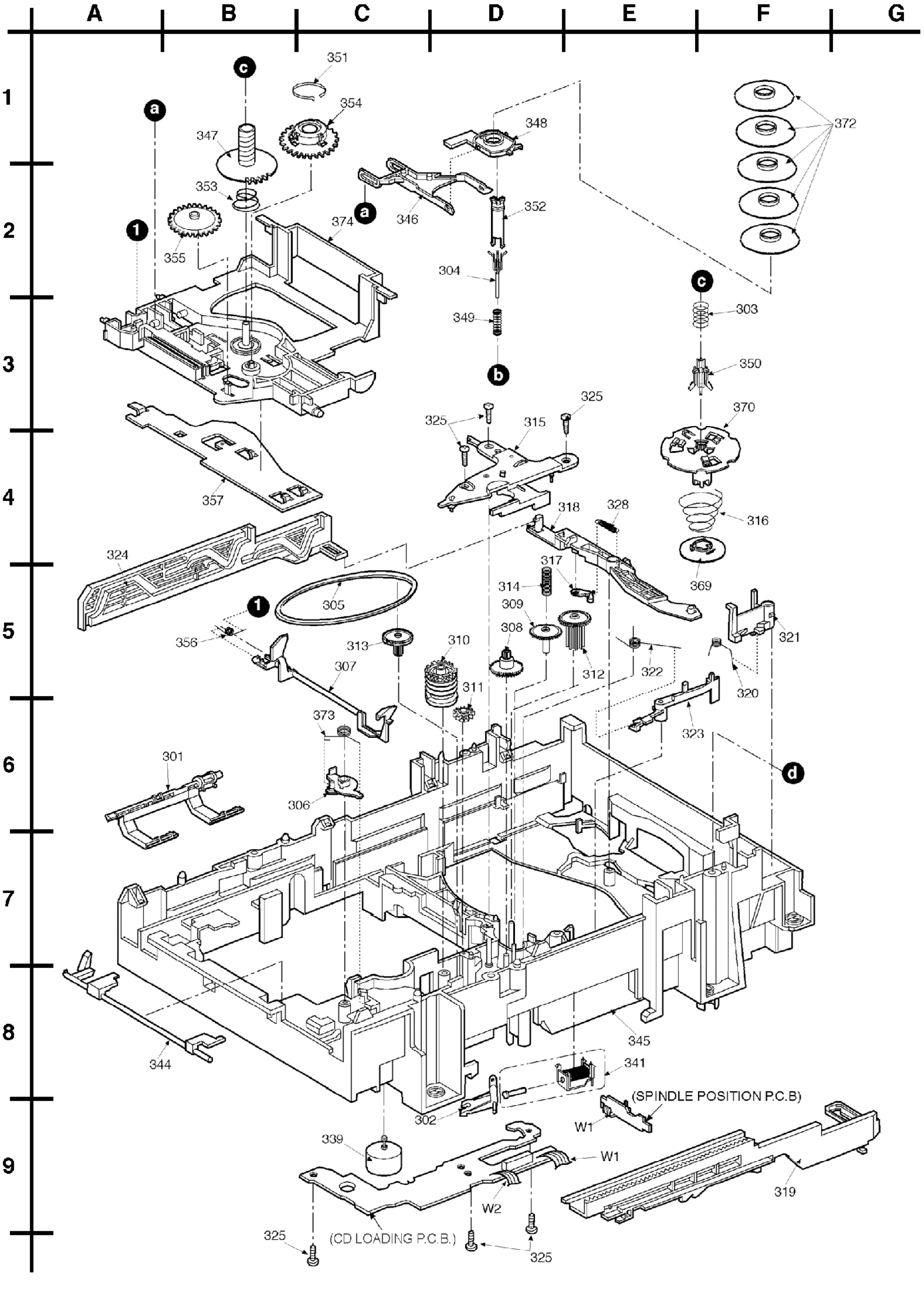
139

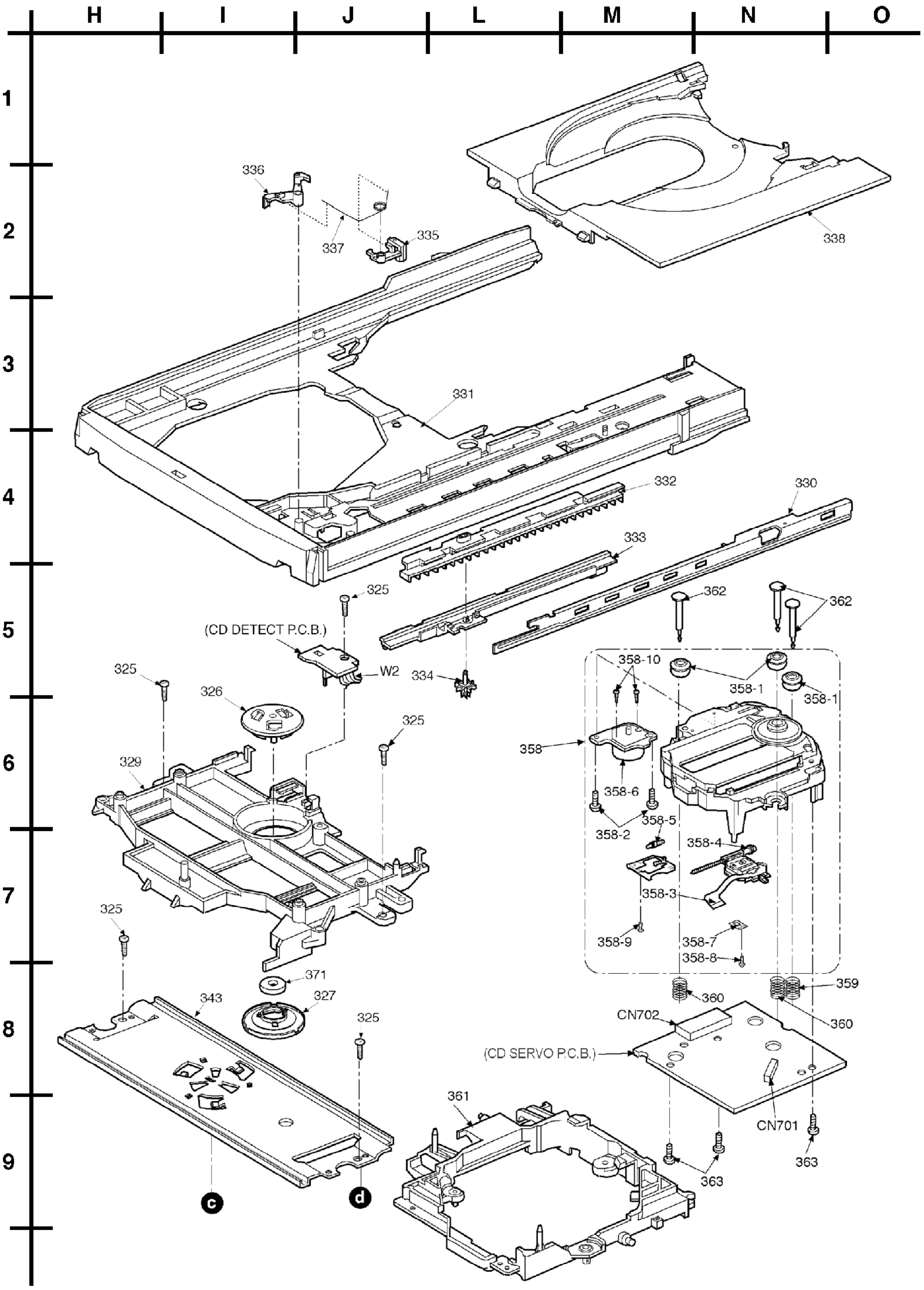
23.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0069	R/P HEAD BLOCK UNIT	[M]
102	RED0070	P/B HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT	[M]
109	RDV0071	CAPSTAN BELT B	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASS’Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061	FLYWHEEL F ASS’Y	[M]
128	RXG0040	FF RELAY GEAR ASS’Y	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASS’Y	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
132	RXL0126	WINDING ARM ASS’Y	[M]
133	RXQ0412	HEAD PANEL ASS’Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0088	CAP MOTOR ASS’Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCREW	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJAA4501-S	CHASSIS ASS’Y	[M]

23.2. CD Loading Mechanism (RD-DAC026-S)

23.2.1. CD Loading Mechanism Parts Location


A
B
C
D
E
F
G
c
a
a
c
b
d
(SPINDLE POSITION P.C.B)
W1
W1
W2
(CD LOADING P.C.B.)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336
337
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338
331
332
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333
325
362
362
(CD DETECT P.C.B.)
325
W2
334
358-10
358-1
358-1
326
325
358
329
358-6
358-2
358-5
358-4
358-3
325
358-9
358-7
358-8
371
359
343
327
360
325
CN702
360
(CD SERVO P.C.B.)
361
CN701
363
363
c
d

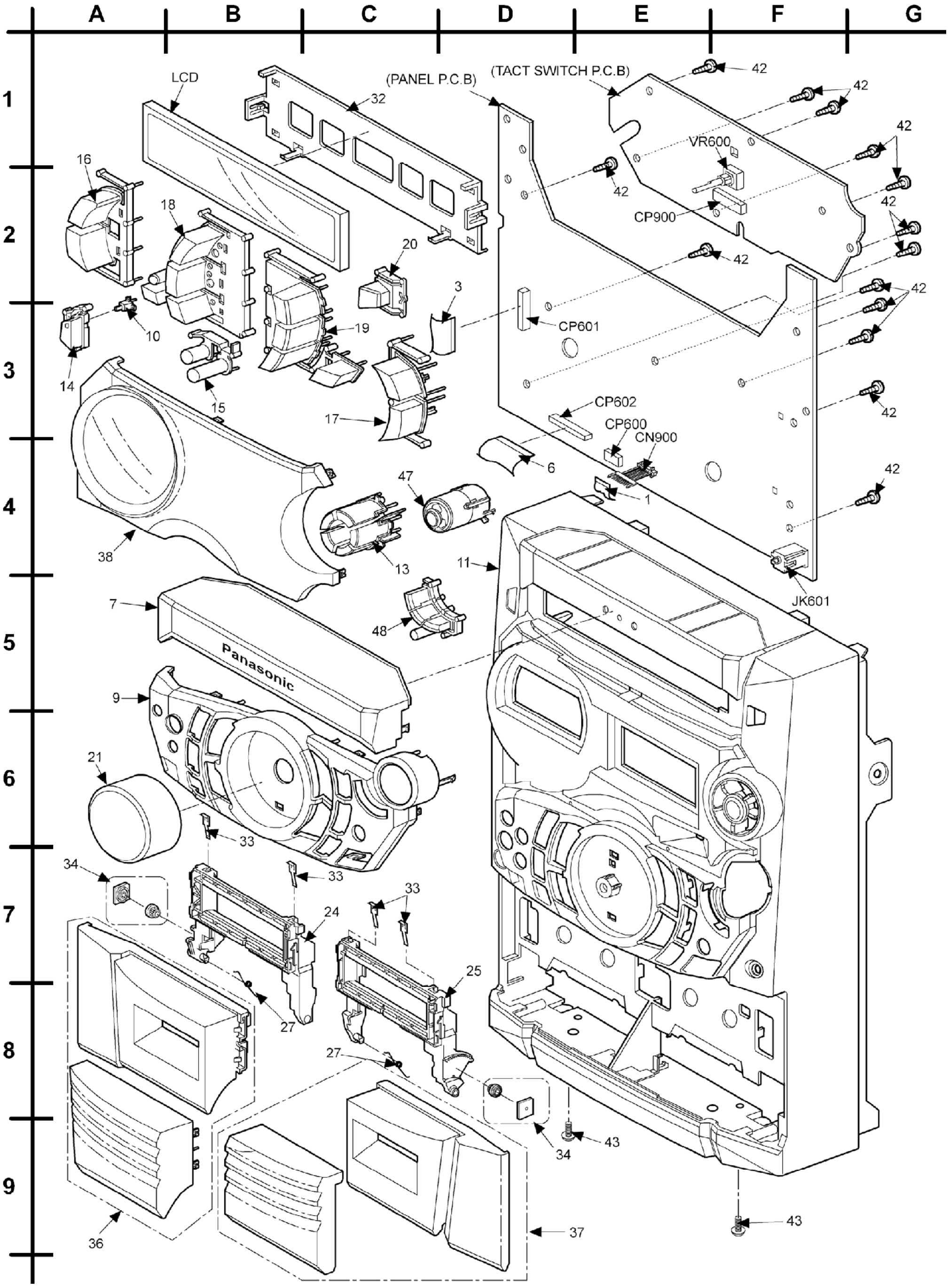
23.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK LEVER	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRAVERSE CAM GEAR	[M]
311	RDG0428	TRAVERSE RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR0334	FIXED PLATE	[M]
327	RMR0624-W2	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR SUB ASS’Y	[M]
341	RSJ0003	SOLENOLD ASS’Y	[M]
343	RMA1106	UPPER PLATE	[M]
344	RML0519	CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS’Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR ‘A’	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
355	RDG0431	RELAY GEAR ‘B’	[M]
356	RME0262	DISK LEVER SPRING	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	RAE0153Z-S	TRAVERSE	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0152A-S	OPU ASS’Y	[M]
358-4	RDG0247	DRIVE GEAR	[M]
358-5	RDG0248	RELAY GEAR	[M]
358-6	RXQ0339	TRAVERSE MOTOR ASS’Y	[M]
358-7	RXQ0304-1	NUT PLATE ASS’Y	[M]
358-8	XQN17+CG5	NUT PLATE ASSY SCREW	[M]
358-9	XQS2+A3FZ	SPINDLE MOTOR SCREW	[M]
358-10	XQS17+A35FZ	TRAVERSE MOTOR SCREW	[M]
359	RME0142	FLOATING SPRING A	[M]
360	RME0109	FLOATING SPRING B	[M]
361	RMR1124A-K	TRAVERSE CHASSIS	[M]
362	RMS0632	TRAVERSE PIN	[M]
363	XTN2+6G	SCREW	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

23.3. Cabinet

23.3.1. Cabinet Parts Location


A
B
C
D
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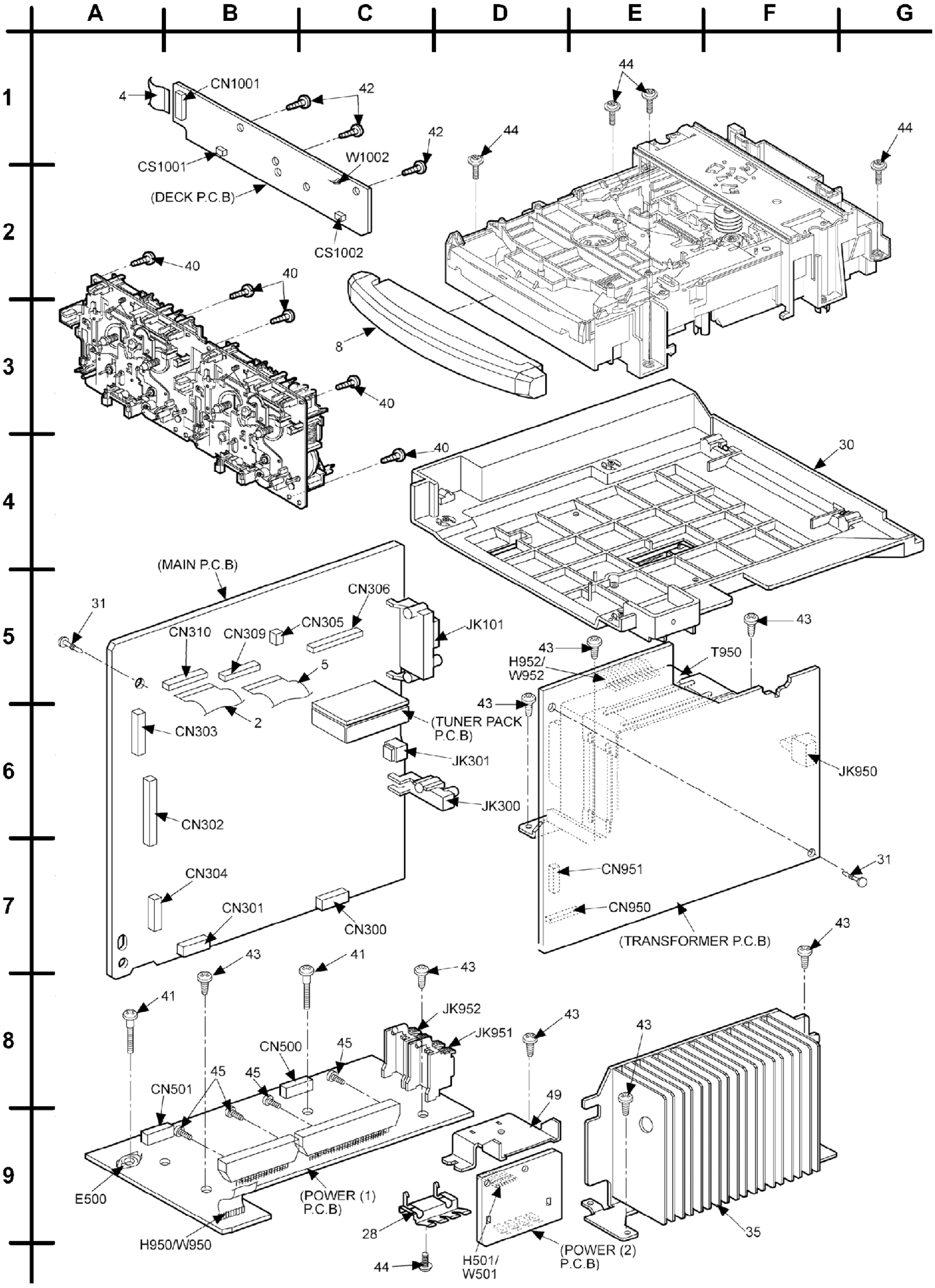
F
G
LCD
(PANEL P.C.B)
(TACT SWITCH P.C.B)
VR600
CP900
CP601
CP602
CP600
CN900
JK601
Panasonic


A
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7
8
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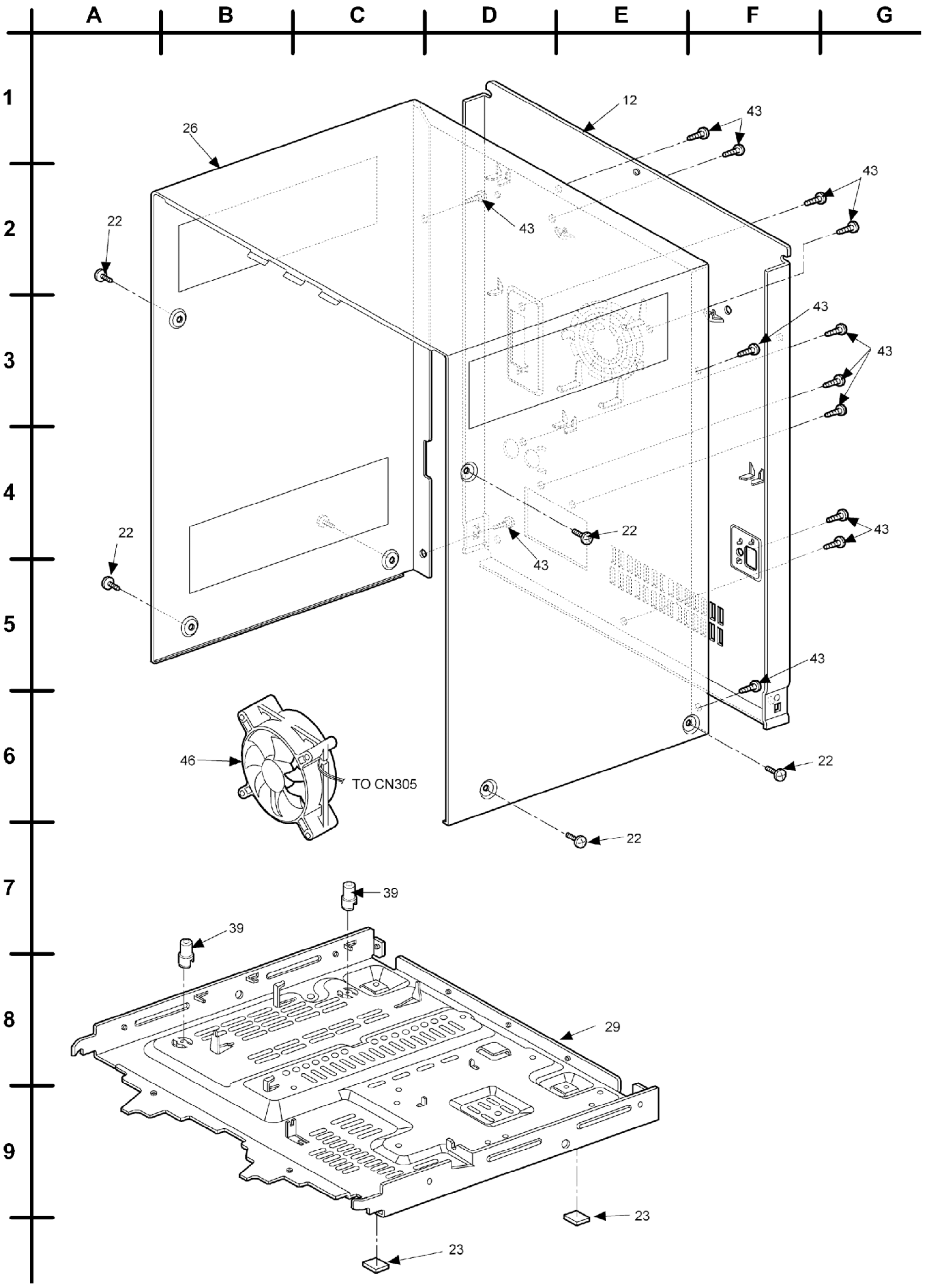
CN1001
4
42
42
CS1001
W1002
42
(DECK P.C.B)
CS1002
44
44
44
44
40
40
8
40
40
30
(MAIN P.C.B)
CN306
CN305
CN309
CN310
JK101
31
5
43
43
T950
H952/
W952
43
(TUNER PACK
P.C.B)
CN303
2
JK301
JK950
JK300
CN302
31
CN951
CN304
CN301
CN300
CN950
(TRANSFORMER P.C.B)
43
43
41
43
41
JK952
JK951
43
45
CN500
43
CN501
45
45
49
E500
(POWER (1)
P.C.B)
28
35
H950/W950
44
H501/
W501
(POWER (2)
P.C.B)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23.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0202	10P FFC	[M]
2	REEX0204	19P FCC	[M]
3	REEX0210	17P FFC	[M]
4	REEX0211	14P FFC WIRE	[M]
5	REEX0212	14P FFC WIRE	[M]
6	REEX0215	30P FFC	[M]
7	RYQX0111-K	TOP ORNAMENT UNIT	[M]
8	RGKX0241-S	CD LID	[M]
9	RGKX0268-1S	CONTROL PANEL	[M]
10	RGLX0081-Q	POWER LIGHT CHIP	[M]
11	RGPX0144B-S	FRONT PANEL	[M]
12	RGRX0031G-A	REAR PANEL	[M]EB
12	RGRX0031G-B	REAR PANEL	[M]EG
12	RGRX0031G-C	REAR PANEL	[M]E
13	RGUX0488-R1	CD CONTROL BUTTON	[M]
14	RGUX0546A-SJ	POWER BUTTON	[M]
15	RGUX0547A-R	SS EQ BUTTON	[M]
16	RGUX0548-SJ	FUNCTION BUTTON (L)	[M]
17	RGUX0549-SJ	FUNCTION BUTTON (R)	[M]
18	RGUX05501S2J	DECK CTRL BUTTON (L)	[M]
19	RGUX05511S1J	DECK CONTROL BTN (R)	[M]
20	RGUX0552-SJ	CD EJECT BUTTON	[M]
21	RGWX0072-S	VOLUME KNOB	[M]
22	RHD30004-2S	SCREW	[M]
23	RKA0059-K	LEG RUBBER	[M]
24	RKFX0093-KJ	CASS HOLDER L	[M]
25	RKFX0094-KJ	CASS HOLDER R	[M]
26	RKMX0077D-S	TOP CABINET (BENT)	[M]
27	RMBX0021	CASS OPEN SPRING	[M]
28	RMCX0021	TRANSISTOR CLIP	[M]
29	RMKX0064	BOTTOM CHASSIS	[M]
30	RMKX0088-J	CD CHASSIS	[M]
31	RMNX0019	PCB SPACER	[M]
32	RMNX0118	FL HOLDER	[M]
33	RUS757ZAA	CASS HALF SPRING	[M]
34	RXGX0002	DAMPER GEAR	[M]
35	RXXX0039A	HEAT SINK UNIT	[M]
36	RYFX0130-SJ	CASS LID UNIT (L)	[M]
37	RYFX0131-SJ	CASS LID UNIT (R)	[M]
38	RYFX0132A-S	FL WINDOW UNIT	[M]
39	SHE187-5J	PCB SUPPORT	[M]
40	XTB3+10JFZ	SCREW	[M]
41	XTB3+20J	SCREW	[M]
42	XTBS26+10J	SCREW	[M]
43	XTBS3+8JFZ1	SCREW	[M]
44	XTW3+12T	SCREW	[M]
45	XTW3+15T	SCREW	[M]
46	REM0072-3	FAN	[M]
47	RYQX0108-S	NAVIGATION JOY UNIT	[M]
48	RGUX0555-1S	NAVIGATION BUTTON	[M]
49	RMYX0086	SUB HEAT SINK	[M]

23.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPX0405A	CD SERVO P.C.B. (SIDE A)	[M] (RTL)
	REPX0405A	CD SERVO P.C.B. (SIDE B)	[M] (RTL)
	REPX0442Q	MAIN/ TUNER P.C.B.	[M] (RTL)
	REPX0425C	PANEL P.C.B.	[M] (RTL)
	REPX0425C	TACT SWITCH P.C.B.	[M] (RTL)
	REPX0429D	TRANSFORMER P.C.B.	[M] (RTL)
	REP2578A-N	CD DETECT P.C.B.	[M] (RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M] (RTL)
	REP2578A-N	CD LOADING P.C.B.	[M] (RTL)
	REPX0427B	POWER (1) P.C.B.	[M] (RTL)
	REPX0429D	POWER (2) P.C.B.	[M] (RTL)
	REPX0331A	DECK P.C.B.	[M] (RTL)
	REPX0321A	DECK MECHANISM P.C.B.	[M] (RTL)
	REPX1999B	TUNER PACK P.C.B.	[M] (RTL)
		INTEGRATED CIRCUITS	
IC1	C0GAM0000005	IC DRIVE	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC300	C1BB00000747	IC ASP	[M]
IC301	C0AABB000117	IC OP-AMP (HP AMP)	[M]
IC303	C1BB00000715	IC RDS	[M]
IC305	C2CBJF000018	IC MICRO-P	[M]
IC501	RSN315H42B-P	IC HIC	[M]
IC502	RSN35H2A-P	IC HIC	[M]
IC601	C1BB00000574	IC I/O EXPANDER	[M]
IC602	C0HBB0000039	IC FL DRIVE	[M]
IC701	AN22004A-NF	IC HEAD AMP	[M]
IC702	MN6627934CH	IC LSI	[M]
IC703	AN8739SBTE2	IC 4CH DRIVER	[M]
IC704	C3ABMB000027	IC 16M DRAM	[M]
IC840	C0ABBB000067	IC RDS	[M]
IC951	CNB13030R2AU	IC PHOTO INTERUPTOR	[M]
IC971	CNB13030R2AU	IC PHOTO INTERUPTOR	[M]
IC1001	AN7348S-E1	IC TAPE PB	[M]
IC1004	C1AA00000612	IC SW	[M]
		TRANSISTORS	
Q1	B1GACFGG0004	TRANSISTOR	[M]
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q102	2SC2058SPTA	TRANSISTOR	[M]
Q106	B1GCCFJJ0015	TRANSISTOR	[M]
Q110	2SC3311ARA	TRANSISTOR	[M]
Q201	KTC3875GRTA	TRANSISTOR	[M]
Q202	KTD1304TA	TRANSISTOR	[M]
Q203	KTD1304TA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q204	KTC3875GRTA	TRANSISTOR	[M]
Q205	KTC3875GRTA	TRANSISTOR	[M]
Q207	KTD1304TA	TRANSISTOR	[M]
Q209	KTC3875GRTA	TRANSISTOR	[M]
Q301	B1GDCFJJ0023	TRANSISTOR	[M]
Q302	B1ABCF000131	TRANSISTOR	[M]
Q303	B1ABCF000131	TRANSISTOR	[M]
Q308	KTA12710YTA	TRANSISTOR	[M]
Q309	KTC3199GRTA	TRANSISTOR	[M]
Q310	B1GCCFGA0005	TRANSISTOR	[M]
Q312	B1GBCFJJ0039	TRANSISTOR	[M]
Q313	KTC3875GRTA	TRANSISTOR	[M]
Q314	KTC3875GRTA	TRANSISTOR	[M]
Q315	KRC103MTA	TRANSISTOR	[M]
Q316	KTA1267GRTA	TRANSISTOR	[M]
Q317	KTA1267GRTA	TRANSISTOR	[M]
Q318	B1GBCFJJ0039	TRANSISTOR	[M]
Q319	B1GBCFJJ0039	TRANSISTOR	[M]
Q320	B1GBCFJJ0039	TRANSISTOR	[M]
Q321	B1GDCFJJ0023	TRANSISTOR	[M]
Q322	B1GBCFJJ0039	TRANSISTOR	[M]
Q323	B1GBCFJJ0039	TRANSISTOR	[M]
Q324	KTA12710YTA	TRANSISTOR	[M]
Q325	B1GDCFJJ0023	TRANSISTOR	[M]
Q326	KTA12710YTA	TRANSISTOR	[M]
Q327	B1GBCFJJ0039	TRANSISTOR	[M]
Q328	B1GDCFJJ0023	TRANSISTOR	[M]
Q370	B1ADCF000001	TRANSISTOR	[M]
Q371	2SD0592ARA	TRANSISTOR	[M]
Q372	B1ADCF000001	TRANSISTOR	[M]
Q373	2SD0592ARA	TRANSISTOR	[M]
Q374	B1ADCF000001	TRANSISTOR	[M]
Q375	B1ABCF000011	TRANSISTOR	[M]
Q401	KTC3875GRTA	TRANSISTOR	[M]
Q402	KTD1304TA	TRANSISTOR	[M]
Q403	KTD1304TA	TRANSISTOR	[M]
Q404	KTC3875GRTA	TRANSISTOR	[M]
Q405	KTC3875GRTA	TRANSISTOR	[M]
Q407	KTD1304TA	TRANSISTOR	[M]
Q409	KTC3875GRTA	TRANSISTOR	[M]
Q501	KTC2026	TRANSISTOR	[M]
Q502	KTA1046	TRANSISTOR	[M]
Q503	KTC2026	TRANSISTOR	[M]
Q504	KTA1046	TRANSISTOR	[M]
Q505	KTA1267GRTA	TRANSISTOR	[M]
Q506	B1GCCFGA0005	TRANSISTOR	[M]
Q507	KTC3199GRTA	TRANSISTOR	[M]
Q508	KTC3205YTA	TRANSISTOR	[M]
Q512	B1AAGC000007	TRANSISTOR	[M]
Q513	B1AAGC000007	TRANSISTOR	[M]
Q514	B1AAGC000007	TRANSISTOR	[M]
Q610	KTC3199GRTA	TRANSISTOR	[M]
Q611	KTC3199GRTA	TRANSISTOR	[M]
Q612	KTC3199GRTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q614	B1GACFGG0004	TRANSISTOR	[M]
Q615	KTA12710YTA	TRANSISTOR	[M]
Q616	KTC3199GRTA	TRANSISTOR	[M]
Q617	KTA12710YTA	TRANSISTOR	[M]
Q618	KRC103MTA	TRANSISTOR	[M]
Q619	KRC103MTA	TRANSISTOR	[M]
Q621	KTC3199GRTA	TRANSISTOR	[M]
Q636	KTC3199GRTA	TRANSISTOR	[M]
Q661	KTC3199GRTA	TRANSISTOR	[M]
Q662	KTC3199GRTA	TRANSISTOR	[M]
Q701	B1ADCF000001	TRANSISTOR	[M]
Q843	KTD1304TA	TRANSISTOR	[M]
Q845	KTD1304TA	TRANSISTOR	[M]
Q863	KTD1304TA	TRANSISTOR	[M]
Q866	B1GDCFJJ0023	TRANSISTOR	[M]
Q867	B1GDCFJJ0023	TRANSISTOR	[M]
Q950	KTC3205YTA	TRANSISTOR	[M]
Q951	2SB621ARSTA	TRANSISTOR	[M]
Q952	KRC102MTA	TRANSISTOR	[M]
Q953	B1AAGC000007	TRANSISTOR	[M]
Q1001	KTC3875GRTA	TRANSISTOR	[M]
Q1003	B1AAGC000007	TRANSISTOR	[M]
Q1004	B1AAGC000007	TRANSISTOR	[M]
Q1005	B1AAGC000007	TRANSISTOR	[M]
Q1007	KTC3875GRTA	TRANSISTOR	[M]
Q1012	KTD1304TA	TRANSISTOR	[M]
Q1013	KTD1304TA	TRANSISTOR	[M]
Q1014	B1ABCF000011	TRANSISTOR	[M]
Q1015	B1ABCF000011	TRANSISTOR	[M]
Q1016	B1GDCFJJ0023	TRANSISTOR	[M]
Q1017	KTD1146YTA	TRANSISTOR	[M]
Q1020	KTD1304TA	TRANSISTOR	[M]
Q1021	KTD1304TA	TRANSISTOR	[M]
		DIODES	
D1	GP1S94	PHOTO INTERRUPTOR	[M]
D2	B0BA4R600003	DIODE	[M]
D101	B0BC5R000009	DIODE	[M]
D201	MA2J72800L	DIODE	[M]
D204	B0ADCC000002	DIODE	[M]
D205	MA2J72800L	DIODE	[M]
D301	B0BC7R500001	DIODE	[M]
D302	B0ACCK000005	DIODE	[M]
D303	B0ADCJ000020	DIODE	[M]
D304	B0ADCJ000020	DIODE	[M]
D305	B0ADCJ000020	DIODE	[M]
D306	B0EAKM000117	DIODE	[M]
D307	B0ACCK000005	DIODE	[M]
D308	B0ACCK000005	DIODE	[M]
D309	B0EAKM000117	DIODE	[M]
D310	B0ACCK000005	DIODE	[M]
D312	B0ACCE000003	DIODE	[M]
D313	B0ACCE000003	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D314	MA2J72900L	DIODE	[M]
D324	B0ACCK000005	DIODE	[M]
D370	B0ACCK000005	DIODE	[M]
D371	B0BC01000014	DIODE	[M]
D374	B0EAKM000117	DIODE	[M]
D375	B0ACCK000005	DIODE	[M]
D376	B0ACCK000005	DIODE	[M]
D377	B0ACCK000005	DIODE	[M]
D378	B0EAKM000117	DIODE	[M]
D379	B0EAKM000117	DIODE	[M]
D401	MA2J72800L	DIODE	[M]
D404	B0ADCC000002	DIODE	[M]
D405	MA2J72800L	DIODE	[M]
D501	B0BA9R600002	DIODE	[M]
D502	B0BA01500003	DIODE	[M]
D503	B0BA01500003	DIODE	[M]
D504	B0AACK000004	DIODE	[M]
D505	1T3T	DIODE	[M]
D506	1T3T	DIODE	[M]
D508	B0BA5R600016	DIODE	[M]
D509	B0BA9R600002	DIODE	[M]
D510	B0BA01400041	DIODE	[M]
D513	B0AACK000004	DIODE	[M]
D514	B0AACK000004	DIODE	[M]
D600	B3AAA0000583	DIODE	[M]
D613	B0BA7R200003	DIODE	[M]
D620	B0AACK000004	DIODE	[M]
D856	B0BC4R600016	DIODE	[M]
D857	B0BC4R600016	DIODE	[M]
D928	B3AAA0000583	DIODE	[M]
D929	B3AAA0000583	DIODE	[M]
D951	MA2C16500E	DIODE	[M]
D954	1T3T	DIODE	[M]
D955	1T3T	DIODE	[M]
D956	1T3T	DIODE	[M]
D957	1T3T	DIODE	[M]
D958	1T3T	DIODE	[M]
D959	1T3T	DIODE	[M]
D960	MTZJ39CTA	DIODE	[M]
D961	B0EAKM000122	DIODE	[M]
D962	B0EAKM000122	DIODE	[M]
D963	B0EAKM000122	DIODE	[M]
D964	B0BA6R600008	DIODE	[M]
D965	B0EAKM000122	DIODE	[M]
D966	B0EAKM000122	DIODE	[M]
D968	B0FBAM000009	DIODE	[M]
D969	B0EAKM000122	DIODE	[M]
D970	B0EAKM000122	DIODE	[M]
D971	MA2C16500E	DIODE	[M]
D1003	B0ACCK000005	DIODE	[M]
D1004	B0BC3R700004	DIODE	[M]
		VARIABLE RESISTORS	

Ref. No.	Part No.	Part Name & Description	Remarks
VR600	**EVEKE2F3524M**	**VR VOLUME JOG**	**[M]**
		SWITCHES	
S601	**EVQ21405R**	**SW OPEN/CLOSE**	**[M]**
S602	**EVQ21405R**	**SW CD 1**	**[M]**
S603	**EVQ21405R**	**SW CD 2**	**[M]**
S604	**EVQ21405R**	**SW CD 3**	**[M]**
S605	**EVQ21405R**	**SW CD 4**	**[M]**
S606	**EVQ21405R**	**SW CD 5**	**[M]**
S607	**EVQ11V07B**	**SW LEFT**	**[M]**
S608	**EVQ11V07B**	**SW DOWN**	**[M]**
S609	**EVQ11V07B**	**SW RIGHT**	**[M]**
S610	**EVQ11V07B**	**SW UP**	**[M]**
S612	**EVQ21405R**	**SW POWER**	**[M]**
S613	**EVQ21405R**	**SW SS EQ**	**[M]**
S614	**EVQ21405R**	**SW PRESET**	**[M]**
S615	**EVQ21405R**	**SW REC**	**[M]**
S616	**EVQ21405R**	**SW DECK 1/2**	**[M]**
S617	**EVQ21405R**	**SW MENU**	**[M]**
S618	**EVQ21405R**	**SW ENTER**	**[M]**
S619	**EVQ21405R**	**SW INDEX**	**[M]**
S620	**EVQ21405R**	**SW DELETE**	**[M]**
S621	**EVQ21405R**	**SW SUB WOOFER**	**[M]**
S701	**RSH1A043-U**	**SW REST**	**[M]**
S901	**EVQ21405R**	**SW REW**	**[M]**
S902	**EVQ21405R**	**SW TUNER**	**[M]**
S903	**EVQ21405R**	**SW CD**	**[M]**
S904	**EVQ21405R**	**SW FF**	**[M]**
S905	**EVQ21405R**	**SW STOP**	**[M]**
S906	**EVQ21405R**	**SW DECK 2**	**[M]**
S907	**EVQ21405R**	**SW TAPE**	**[M]**
S908	**EVQ21405R**	**SW AUX**	**[M]**
S909	**EVQ21405R**	**SW DECK 1**	**[M]**
S910	**EVQ21405R**	**SW DISPLAY**	**[M]**
S951	**RSH1A018-3U**	**SW MODE**	**[M]**
S952	**RSH1A019-2U**	**SW LEAF**	**[M]**
S971	**RSH1A018-3U**	**SW MODE**	**[M]**
S972	**RSH1A019-2U**	**SW LEAF**	**[M]**
S975	**RSH1A019-2U**	**SW LEAF**	**[M]**
		SWITCHES	
SW1	**RSH1A032-U**	**SW PUSH**	**[M]**
SW2	**RSH1A032-U**	**SW PUSH**	**[M]**
SW3	**RSH1A005-1U**	**SW OPEN**	**[M]**
SW4	**RSH1A91ZA-A**	**SW CD**	**[M]**
SW5	**K0L1BB000005**	**SW LOCK**	**[M]**
		CONNECTORS	
CN1	**K1MN14A00049**	**14P FFC CONNECTOR**	**[M]**
CN300	**K1KB12B00036**	**12P CONNECTOR**	**[M]**
CN301	**K1KB12B00036**	**12P CONNECTOR**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
CN302	K1MN30A00046	30P FFC CONNECTOR	[M]
CN303	RJS1A9417	FFC CONNECTOR	[M]
CN304	RJS1A9414-1	14P CONNECTOR	[M]
CN305	K1KA02A00008	CONNECTOR	[M]
CN306	RJT119W15V	15P WIRE HOLDER	[M]
CN309	RJS1A9414-1	14P CONNECTOR	[M]
CN310	K1MN19A00026	FFC CONNECTOR	[M]
CN500	K1KA12A00184	12P CONNECTOR	[M]
CN501	K1KA12A00184	12P CONNECTOR	[M]
CN701	RJS2A8616	16P FPC CONNECTOR	[M]
CN702	RJS1A6719-1Q	19P FFC CONNECTOR	[M]
CN900	RJT071K11	CONNECTOR	[M]
CN950	RJT119W09V	9P CONNECTOR	[M]
CN951	RJT119W10V	10P CONNECTOR	[M]
CN971	K1MN10B00104	10P FFC CONNECTOR	[M]
CN1001	K1MN14B00058	14P CONNECTOR	[M]
CP600	K1MN10B00104	10P FFC CONNECTOR	[M]
CP601	RJS1A9417	FFC CONNECTOR	[M]
CP602	K1MN30A00046	30P FFC CONNECTOR	[M]
CP900	RJU071H11M	CONNECTOR	[M]
CS1001	RJS1A6805-J	5P CONNECTOR	[M]
CS1002	RJS1A6805-J	5P CONNECTOR	[M]
		CHIP RESISTOR	
W480	ERJ3GEY0R00V	0 1/16W	[M]
W481	ERJ3GEY0R00V	0 1/16W	[M]
W482	ERJ3GEY0R00V	0 1/16W	[M]
W483	ERJ3GEY0R00V	0 1/16W	[M]
W484	ERJ3GEY0R00V	0 1/16W	[M]
W485	ERJ3GEY0R00V	0 1/16W	[M]
W486	ERJ3GEY0R00V	0 1/16W	[M]
		COILS & TRANSFORMERS	
L278	G0AR76Y00001	CHOKE COIL	[M]
L279	G0AR76Y00001	CHOKE COIL	[M]
L280	G0AR76Y00001	CHOKE COIL	[M]
L301	G0C101JA0030	INDUCTOR	[M]
L302	G0C101JA0030	INDUCTOR	[M]
L303	G0C101JA0030	INDUCTOR	[M]
L304	RLQB3R3KT-1Y	COIL	[M]
L305	J0JBC0000019	CHIP INDUCTOR	[M]
L478	G0AR76Y00001	CHOKE COIL	[M]
L479	G0AR76Y00001	CHOKE COIL	[M]
L480	G0AR76Y00001	CHOKE COIL	[M]
L600	RLQB3R3KT-1Y	COIL	[M]
L601	RLQB101KT-1Y	COIL	[M]
L602	RLQZP101KT-Y	AXIAL COIL	[M]
L603	RLQZP101KT-Y	AXIAL COIL	[M]
L609	RLQZP100KT-Y	AXIAL COIL	[M]
L610	RLQB100KT-1Y	COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L950	RLQZ371	LINE FILTER	[M] ⚠
L1001	G0C470JA0030	RF CHOKE COIL	[M]
L1002	7L1A62N	BIAS OSC COIL	[M]
T950	G4C7AFH00004	TRANSFORMER	[M] ⚠
T951	RTP1H3E002	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z101	RLA2Z007-T	COIL	[M]
Z102	G2BAE0000003	AM IF BLOCK	[M]
Z120	ENV17290G1Y	FM TUNER PACK	[M]
Z600	B3RAB0000025	REMOTE SENSOR	[M]
Z950	ERZV10V511CS	ZENER	[M] ⚠
Z971	RGSD12A1445T	RADA RESISTOR	[M]
		CERAMIC FILTERS	
CF201	RLFFETNGD01L	CERAMIC FILTER	[M]
CF202	RLFFETNGD01L	CERAMIC FILTER	[M]
		RELAY	
RL950	RSY0040M-0	PRIMARY RELAY	[M] ⚠
		OSCILLATORS	
X102	RLFDFT22DD	DISCRIMINATOR	[M]
X103	RSXC7M20S05T	CRYSTAL OSCILLATOR	[M]
X301	H0A327200073	CRYSTAL OSCILLATOR	[M]
X302	H0H433400001	CRYSTAL OSCILLATOR	[M]
X303	H2A100500006	RESONATOR	[M]
X701	RSXB16M9J02T	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	
FL600	A2BD00000075	FL	[M]
		FUSES	
F1	K5D202BK0005	250V 2A FUSE	[M] ⚠
		FUSE HOLDERS	
FC1	EYF52BC	FUSE HOLDER	[M]
FC2	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP533	K5G400A00001	FUSABLE RESISTOR	[M] ⚠
FP950	K5G402AA0002	FUSE PROTECTOR	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
FP951	K5G102AA0002	FUSE PROTECTOR	[M] ⚠
		HOLDERS	
H501	RJS1A5510	WIRE HOLDER	[M]
H950	RJS1A5509	9P CABLE HOLDER	[M]
H952	K1YF15000004	15P WIRE HOLDER	[M]
		JACKS	
JK101	RJH8304N	JK ANTENNA	[M]
JK300	RJH2213N-2	JK 2P RCA	[M]
JK301	B3RAA0000005	JK OPTICAL	[M]
JK601	K2HC103A0023	JK SMALL SIGN	[M]
JK950	K2AA2B000004	JK AC INLET	[M] ⚠
JK951	K4BC04B00078	JK SPEAKER	[M]
JK952	K4BC06B00046	JK SPEAKER	[M]
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
E501	RSQX0001-1	EARTH PLATE	[M]
		WIRES	
W1	REZ1023-1	4P WIRE	[M]
W2	REZ1024	3P WIRE	[M]
W501	REXX0348	10P FLAT	[M]
W950	REXX0347	9P WIRE	[M]
W952	REXX0349	15P FLAT	[M]
W1002	RWJ0102050CK	MAIN-MECHA MOTOR WIRE	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R103	D0GB101JA002	100 1/16W	[M]
R104	ERJ3GEYJ103V	10K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	ERJ3GEYJ474V	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R108	ERJ3GEYJ474V	470K 1/16W	[M]
R109	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	D0GB562JA002	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]
R117	D0GB683JA002	68K 1/16W	[M]
R118	D0GB332JA002	3.3K 1/16W	[M]
R119	ERJ3GEYJ123V	12K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	D0GB272JA002	2.7K 1/16W	[M]
R123	D0GB683JA002	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	D0GB820JA019	82 1/16W	[M]
R129	D0GB273JA002	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	D0GB121JA002	120 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	D0GB332JA002	3.3K 1/16W	[M]
R139	ERJ3GEYJ223V	22K 1/16W	[M]
R140	ERJ3GEYJ223V	22K 1/16W	[M]
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R144	D0GB121JA002	120 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	D0GB820JA019	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ103V	10K 1/16W	[M]
R202	D0GB332JA002	3.3K 1/16W	[M]
R203	D0GB1R0JA002	1 1/16W	[M]
R204	ERJ3GEYJ330V	33 1/16W	[M]
R205	ERJ3GEYJ330V	33 1/16W	[M]
R206	ERJ3GEYJ330V	33 1/16W	[M]
R207	ERJ3GEYJ330V	33 1/16W	[M]
R208	D0GB332JA002	3.3K 1/16W	[M]
R209	ERJ3GEYJ561V	560 1/16W	[M]
R210	D0GB820JA019	82 1/16W	[M]
R211	D0GB562JA002	5.6K 1/16W	[M]
R212	ERJ3GEYJ102V	1K 1/16W	[M]
R213	ERJ3GEYJ473V	47K 1/16W	[M]
R214	ERJ3GEYJ102V	1K 1/16W	[M]
R215	ERJ3GEYJ473V	47K 1/16W	[M]
R216	ERJ3GEYJ104V	100K 1/16W	[M]
R217	ERJ3GEYJ123V	12K 1/16W	[M]
R219	D0GB122JA019	1.2K 1/16W	[M]
R220	D0GB272JA002	2.7K 1/16W	[M]
R221	ERJ3GEYJ473V	47K 1/16W	[M]
R222	D0GB821JA002	820 1/16W	[M]
R223	D0GB272JA002	2.7K 1/16W	[M]
R224	ERJ3GEYJ472V	4.7K 1/16W	[M]
R225	ERJ3GEYJ473V	47K 1/16W	[M]
R226	D0GB332JA002	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R227	ERJ3GEYJ473V	47K 1/16W	[M]
R228	ERJ3GEYJ222V	2.2K 1/16W	[M]
R229	D0GB183JA002	18K 1/16W	[M]
R230	ERJ3GEYJ102V	1K 1/16W	[M]
R231	ERJ3GEYJ104V	100K 1/16W	[M]
R232	ERJ3GEYJ222V	2.2K 1/16W	[M]
R233	ERJ3GEYJ472V	4.7K 1/16W	[M]
R234	ERJ3GEYJ104V	100K 1/16W	[M]
R235	D0GB152JA002	1.5K 1/16W	[M]
R236	D0GB183JA002	18K 1/16W	[M]
R237	D0GB183JA002	18K 1/16W	[M]
R238	ERJ3GEYJ224V	220K 1/16W	[M]
R239	ERJ3GEYJ472V	4.7K 1/16W	[M]
R240	ERJ3GEYJ472V	4.7K 1/16W	[M]
R241	ERJ3GEYJ123V	12K 1/16W	[M]
R242	D0GB562JA002	5.6K 1/16W	[M]
R243	ERJ3GEYJ182V	1.8K 1/16W	[M]
R244	ERJ3GEYJ102V	1K 1/16W	[M]
R245	ERDS2TJ332T	3.3K 1/4W	[M]
R245	ERJ3GEYJ221V	220 1/16W	[M]
R246	ERDS2TJ153T	15K 1/4W	[M]
R247	ERDS2TJ332T	3.3K 1/4W	[M]
R248	D0GB4R7JA008	4.7 1/16W	[M]
R248	ERDS2TJ153T	15K 1/4W	[M]
R249	ERDS2TJ683T	68K 1/4W	[M]
R250	ERDS2TJ683T	68K 1/4W	[M]
R251	ERDS2TJ104T	100K 1/4W	[M]
R252	ERDS2TJ104T	100K 1/4W	[M]
R252	ERJ3GEYJ104V	100K 1/16W	[M]
R253	ERJ3GEYJ102V	1K 1/16W	[M]
R255	ERDS1FVJ100T	10 1/2W	[M]
R255	ERJ3GEYJ104V	100K 1/16W	[M]
R256	D0GB152JA002	1.5K 1/16W	[M]
R256	ERDS1FVJ100T	10 1/2W	[M]
R268	ERJ3GEYJ102V	1K 1/16W	[M]
R269	ERDS2TJ563T	56K 1/4W	[M]
R269	ERJ3GEYJ823V	82K 1/16W	[M]
R270	ERDS2TJ104T	100K 1/4W	[M]
R271	ERJ3GEYJ334V	330K 1/16W	[M]
R272	D0GB272JA002	2.7K 1/16W	[M]
R273	ERDS1FVJ100T	10 1/2W	[M]
R275	D0GB101JA002	100 1/16W	[M]
R276	D0GB333JA002	33K 1/16W	[M]
R277	ERDS2TJ563T	56K 1/4W	[M]
R278	ERDS2TJ100T	10 1/4W	[M]
R279	ERDS2TJ100T	10 1/4W	[M]
R279	ERJ3GEYJ822V	8.2K 1/16W	[M]
R280	ERDS2TJ100T	10 1/4W	[M]
R301	ERJ3GEYJ472V	4.7K 1/16W	[M]
R302	ERJ3GEYJ103V	10K 1/16W	[M]
R303	ERDS1FVJ270T	27 1/2W	[M]
R305	ERJ3GEYJ682V	6.8K 1/16W	[M]
R307	D0GB122JA019	1.2K 1/16W	[M]
R308	D0GB122JA019	1.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R309	D0GB273JA002	27K 1/16W	[M]
R310	D0GB563JA002	56K 1/16W	[M]
R312	ERJ3GEYJ104V	100K 1/16W	[M]
R313	ERJ3GEYJ472V	4.7K 1/16W	[M]
R314	ERJ3GEYJ472V	4.7K 1/16W	[M]
R315	ERJ3GEYJ822V	8.2K 1/16W	[M]
R318	D0GB332JA002	3.3K 1/16W	[M]
R320	ERJ3GEY0R00V	0 1/16W	[M]
R323	ERDS1FVJ150T	15 1/2W	[M]
R324	ERD2FCVG120T	12 1/4W	[M]
R325	ERJ3GEYJ103V	10K 1/16W	[M]
R326	D0GB101JA002	100 1/16W	[M]
R327	ERJ3GEYJ102V	1K 1/16W	[M]
R328	ERJ3GEYJ222V	2.2K 1/16W	[M]
R329	ERJ3GEYJ331V	330 1/16W	[M]
R332	D0GB101JA002	100 1/16W	[M]
R337	ERJ3GEYJ102V	1K 1/16W	[M]
R338	ERJ3GEYJ102V	1K 1/16W	[M]
R339	ERJ3GEYJ102V	1K 1/16W	[M]
R340	ERJ3GEYJ103V	10K 1/16W	[M]
R341	ERJ3GEYJ102V	1K 1/16W	[M]
R342	ERJ3GEYJ102V	1K 1/16W	[M]
R343	ERJ3GEYJ103V	10K 1/16W	[M]
R344	ERJ3GEYJ223V	22K 1/16W	[M]
R345	ERJ3GEYJ123V	12K 1/16W	[M]
R346	ERJ3GEYJ223V	22K 1/16W	[M]
R347	ERJ3GEYJ123V	12K 1/16W	[M]
R348	ERJ3GEYJ221V	220 1/16W	[M]
R349	ERJ3GEYJ102V	1K 1/16W	[M]
R350	ERJ3GEYJ103V	10K 1/16W	[M]
R351	ERJ3GEYJ221V	220 1/16W	[M]
R352	D0GB332JA002	3.3K 1/16W	[M]
R353	ERJ3GEYJ822V	8.2K 1/16W	[M]
R354	D0GB101JA002	100 1/16W	[M]
R355	ERJ3GEYJ103V	10K 1/16W	[M]
R356	ERJ3GEYJ103V	10K 1/16W	[M]
R358	ERJ3GEYJ103V	10K 1/16W	[M]
R359	ERJ3GEYJ472V	4.7K 1/16W	[M]
R360	ERJ3GEYJ472V	4.7K 1/16W	[M]
R361	ERJ3GEYJ102V	1K 1/16W	[M]
R362	ERJ3GEYJ102V	1K 1/16W	[M]
R363	ERJ3GEYJ102V	1K 1/16W	[M]
R364	ERJ3GEYJ102V	1K 1/16W	[M]
R365	ERJ3GEYJ102V	1K 1/16W	[M]
R366	ERJ3GEYJ102V	1K 1/16W	[M]
R367	ERJ3GEYJ103V	10K 1/16W	[M]
R368	ERJ3GEYJ103V	10K 1/16W	[M]
R369	ERJ3GEYJ103V	10K 1/16W	[M]
R370	ERJ3GEYJ104V	100K 1/16W	[M]
R371	ERJ3GEYJ472V	4.7K 1/16W	[M]
R372	ERJ3GEYJ472V	4.7K 1/16W	[M]
R373	D0GB332JA002	3.3K 1/16W	[M]
R374	ERJ3GEYJ104V	100K 1/16W	[M]
R375	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R376	ERDS1FVJ220T	22 1/2W	[M]
R377	ERJ3GEYJ224V	220K 1/16W	[M]
R378	D0GB101JA002	100 1/16W	[M]
R379	ERJ3GEYJ104V	100K 1/16W	[M]
R380	ERJ3GEYJ103V	10K 1/16W	[M]
R381	ERJ3GEYJ225V	2.2M 1/16W	[M]
R382	ERJ3GEYJ103V	10K 1/16W	[M]
R383	ERJ3GEYJ103V	10K 1/16W	[M]
R384	ERJ3GEYJ103V	10K 1/16W	[M]
R385	ERJ3GEYJ103V	10K 1/16W	[M]
R386	ERJ3GEYJ103V	10K 1/16W	[M]
R389	ERJ3GEYJ103V	10K 1/16W	[M]
R390	ERJ3GEYJ103V	10K 1/16W	[M]
R391	ERJ3GEYJ472V	4.7K 1/16W	[M]
R392	ERJ3GEYJ103V	10K 1/16W	[M]
R393	ERJ3GEYJ103V	10K 1/16W	[M]
R394	ERJ3GEYJ103V	10K 1/16W	[M]
R395	ERJ3GEYJ473V	47K 1/16W	[M]
R396	ERJ3GEYJ473V	47K 1/16W	[M]
R397	ERJ3GEYJ104V	100K 1/16W	[M]
R398	ERJ3GEYJ103V	10K 1/16W	[M]
R399	ERJ3GEYJ103V	10K 1/16W	[M]
R400	ERJ3GEYJ103V	10K 1/16W	[M]
R401	ERJ3GEYJ103V	10K 1/16W	[M]
R402	D0GB332JA002	3.3K 1/16W	[M]
R403	D0GB1R0JA002	1 1/16W	[M]
R404	ERJ3GEYJ330V	33 1/16W	[M]
R405	ERJ3GEYJ330V	33 1/16W	[M]
R406	ERJ3GEYJ330V	33 1/16W	[M]
R407	ERJ3GEYJ330V	33 1/16W	[M]
R408	D0GB332JA002	3.3K 1/16W	[M]
R409	ERJ3GEYJ561V	560 1/16W	[M]
R410	D0GB820JA019	82 1/16W	[M]
R411	D0GB562JA002	5.6K 1/16W	[M]
R412	ERJ3GEYJ102V	1K 1/16W	[M]
R413	ERJ3GEYJ473V	47K 1/16W	[M]
R414	ERJ3GEYJ102V	1K 1/16W	[M]
R415	ERJ3GEYJ473V	47K 1/16W	[M]
R416	ERJ3GEYJ104V	100K 1/16W	[M]
R417	ERJ3GEYJ123V	12K 1/16W	[M]
R419	D0GB122JA019	1.2K 1/16W	[M]
R420	D0GB272JA002	2.7K 1/16W	[M]
R421	ERJ3GEYJ473V	47K 1/16W	[M]
R422	D0GB821JA002	820 1/16W	[M]
R423	D0GB272JA002	2.7K 1/16W	[M]
R424	ERJ3GEYJ472V	4.7K 1/16W	[M]
R425	ERJ3GEYJ473V	47K 1/16W	[M]
R426	D0GB332JA002	3.3K 1/16W	[M]
R427	ERJ3GEYJ473V	47K 1/16W	[M]
R428	ERJ3GEYJ222V	2.2K 1/16W	[M]
R429	D0GB183JA002	18K 1/16W	[M]
R430	ERJ3GEYJ102V	1K 1/16W	[M]
R431	ERJ3GEYJ104V	100K 1/16W	[M]
R432	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R433	ERJ3GEYJ472V	4.7K 1/16W	[M]
R434	ERJ3GEYJ104V	100K 1/16W	[M]
R435	D0GB152JA002	1.5K 1/16W	[M]
R436	D0GB183JA002	18K 1/16W	[M]
R437	D0GB183JA002	18K 1/16W	[M]
R438	ERJ3GEYJ224V	220K 1/16W	[M]
R439	ERJ3GEYJ472V	4.7K 1/16W	[M]
R440	ERJ3GEYJ472V	4.7K 1/16W	[M]
R441	ERJ3GEYJ123V	12K 1/16W	[M]
R442	D0GB562JA002	5.6K 1/16W	[M]
R443	ERJ3GEYJ182V	1.8K 1/16W	[M]
R444	ERJ3GEYJ102V	1K 1/16W	[M]
R445	ERDS2TJ332T	3.3K 1/4W	[M]
R445	ERJ3GEYJ221V	220 1/16W	[M]
R446	ERDS2TJ153T	15K 1/4W	[M]
R446	ERJ3GEYJ223V	22K 1/16W	[M]
R447	ERDS2TJ332T	3.3K 1/4W	[M]
R448	D0GB4R7JA008	4.7 1/16W	[M]
R448	ERDS2TJ153T	15K 1/4W	[M]
R449	ERDS2TJ683T	68K 1/4W	[M]
R450	ERDS2TJ683T	68K 1/4W	[M]
R450	ERJ3GEYJ472V	4.7K 1/16W	[M]
R451	ERDS2TJ683T	68K 1/4W	[M]
R452	ERDS2TJ683T	68K 1/4W	[M]
R452	ERJ3GEYJ104V	100K 1/16W	[M]
R453	ERJ3GEYJ102V	1K 1/16W	[M]
R454	ERJ3GEYJ472V	4.7K 1/16W	[M]
R455	ERDS1FVJ100T	10 1/2W	[M]
R455	ERJ3GEYJ104V	100K 1/16W	[M]
R456	D0GB152JA002	1.5K 1/16W	[M]
R456	ERDS1FVJ100T	10 1/2W	[M]
R460	ERJ3GEYJ471V	470 1/16W	[M]
R461	ERJ3GEYJ102V	1K 1/16W	[M]
R462	ERJ3GEYJ102V	1K 1/16W	[M]
R463	D0GB101JA002	100 1/16W	[M]
R468	ERJ3GEYJ102V	1K 1/16W	[M]
R469	ERDS2TJ272T	2.7K 1/4W	[M]
R469	ERJ3GEYJ823V	82K 1/16W	[M]
R470	ERDS2TJ563T	56K 1/4W	[M]
R471	ERJ3GEYJ334V	330K 1/16W	[M]
R472	D0GB272JA002	2.7K 1/16W	[M]
R473	ERDS1FVJ100T	10 1/2W	[M]
R475	D0GB101JA002	100 1/16W	[M]
R476	D0GB333JA002	33K 1/16W	[M]
R477	ERDS2TJ563T	56K 1/4W	[M]
R478	ERDS2TJ100T	10 1/4W	[M]
R479	ERDS2TJ100T	10 1/4W	[M]
R479	ERJ3GEYJ822V	8.2K 1/16W	[M]
R480	ERDS2TJ100T	10 1/4W	[M]
R501	ERDS2TJ103T	10K 1/4W	[M]
R502	ERDS2TJ223T	22K 1/4W	[M]
R503	ERDS2TJ123T	12K 1/4W	[M]
R506	ERDS2TJ104T	100K 1/4W	[M]
R507	ERDS1FVJ331T	330 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R508	**ERDS1FVJ331T**	**330 1/2W**	**[M]**
R509	**ERDS1FVJ331T**	**330 1/2W**	**[M]**
R510	**ERDS2TJ272T**	**2.7K 1/4W**	**[M]**
R511	**ERDS2TJ561T**	**560 1/4W**	**[M]**
R512	**ERDS2TJ272T**	**2.7K 1/4W**	**[M]**
R513	**ERDS2TJ332T**	**3.3K 1/4W**	**[M]**
R514	**ERDS2TJ332T**	**3.3K 1/4W**	**[M]**
R515	**ERDS1FVJ270T**	**27 1/2W**	**[M]**
R516	**ERDS1FVJ150T**	**15 1/2W**	**[M]**
R517	**ERDS1FVJ2R7T**	**2.7 1/2W**	**[M]**
R518	**ERDS1FVJ2R7T**	**2.7 1/2W**	**[M]**
R519	**ERDS1FVJ2R7T**	**2.7 1/2W**	**[M]**
R520	**ERDS1FVJ2R7T**	**2.7 1/2W**	**[M]**
R521	**ERDS1FVJ2R7T**	**2.7 1/2W**	**[M]**
R522	**ERDS2TJ332T**	**3.3K 1/4W**	**[M]**
R523	**ERDS2TJ471T**	**470 1/4W**	**[M]**
R524	**ERDS2TJ2R2T**	**2.2 1/4W**	**[M]**
R525	**ERDS2TJ2R2T**	**2.2 1/4W**	**[M]**
R526	**ERDS2TJ2R2T**	**2.2 1/4W**	**[M]**
R527	**ERDS2TJ2R2T**	**2.2 1/4W**	**[M]**
R528	**ERDS2TJ103T**	**10K 1/4W**	**[M]**
R529	**ERDS1FVJ331T**	**330 1/2W**	**[M]**
R530	**ERDS2TJ122T**	**1.2K 1/4W**	**[M]**
R531	**ERDS2TJ222T**	**2.2K 1/4W**	**[M]**
R532	**ERDS2TJ151T**	**150 1/4W**	**[M]**
R534	**ERDS2TJ562T**	**5.6K 1/4W**	**[M]**
R535	**ERDS2TJ104T**	**100K 1/4W**	**[M]**
R536	**ERDS2TJ334T**	**330K 1/4W**	**[M]**
R553	**ERDS2TJ224T**	**220K 1/4W**	**[M]**
R554	**ERDS2TJ103T**	**10K 1/4W**	**[M]**
R555	**ERDS2TJ223T**	**22K 1/4W**	**[M]**
R556	**ERDS2TJ103T**	**10K 1/4W**	**[M]**
R557	**ERDS2TJ223T**	**22K 1/4W**	**[M]**
R558	**ERDS2TJ223T**	**22K 1/4W**	**[M]**
R561	**ERDS2TJ104T**	**100K 1/4W**	**[M]**
R562	**ERDS2TJ683T**	**68K 1/4W**	**[M]**
R600	**ERDS2TJ472T**	**4.7K 1/4W**	**[M]**
R601	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R602	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R603	**ERDS2TJ122T**	**1.2K 1/4W**	**[M]**
R604	**ERDS2TJ182T**	**1.8K 1/4W**	**[M]**
R605	**ERDS2TJ222T**	**2.2K 1/4W**	**[M]**
R606	**ERDS2TJ272T**	**2.7K 1/4W**	**[M]**
R607	**ERDS2TJ472T**	**4.7K 1/4W**	**[M]**
R608	**ERDS2TJ682T**	**6.8K 1/4W**	**[M]**
R609	**ERDS2TJ103T**	**10K 1/4W**	**[M]**
R610	**ERDS2TJ223T**	**22K 1/4W**	**[M]**
R612	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R613	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R614	**ERDS2TJ122T**	**1.2K 1/4W**	**[M]**
R615	**ERDS2TJ182T**	**1.8K 1/4W**	**[M]**
R616	**ERDS2TJ222T**	**2.2K 1/4W**	**[M]**
R617	**ERDS2TJ272T**	**2.7K 1/4W**	**[M]**
R618	**ERDS2TJ472T**	**4.7K 1/4W**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
R619	**ERDS2TJ682T**	**6.8K 1/4W**	**[M]**
R620	**ERDS2TJ103T**	**10K 1/4W**	**[M]**
R621	**ERDS2TJ104T**	**100K 1/4W**	**[M]**
R634	**ERDS2TJ103T**	**10K 1/4W**	**[M]**
R635	**ERDS2TJ103T**	**10K 1/4W**	**[M]**
R636	**ERDS2TJ104T**	**100K 1/4W**	**[M]**
R645	**ERDS2TJ101T**	**100 1/4W**	**[M]**
R646	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R647	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R650	**ERDS2TJ471T**	**470 1/4W**	**[M]**
R651	**ERDS2TJ471T**	**470 1/4W**	**[M]**
R654	**ERDS2TJ221T**	**220 1/4W**	**[M]**
R655	**ERDS2TJ221T**	**220 1/4W**	**[M]**
R661	**ERDS2TJ104T**	**100K 1/4W**	**[M]**
R662	**ERDS2TJ104T**	**100K 1/4W**	**[M]**
R688	**ERDS2TJ2R7T**	**2.7 1/4W**	**[M]**
R689	**ERDS2TJ223T**	**22K 1/4W**	**[M]**
R691	**ERDS2TJ470T**	**47 1/4W**	**[M]**
R692	**ERD2FCVG470T**	**47 1/4W**	**[M]**
R693	**ERD2FCVG470T**	**47 1/4W**	**[M]**
R698	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R699	**ERDS2TJ102T**	**1K 1/4W**	**[M]**
R700	**ERDS2TJ2R7T**	**2.7 1/4W**	**[M]**
R701	**D0GB4R7JA008**	**4.7 1/16W**	**[M]**
R701	**ERDS2TJ223T**	**22K 1/4W**	**[M]**
R702	**ERDS2TJ273T**	**27K 1/4W**	**[M]**
R702	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R704	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R705	**D0GB393JA002**	**39K 1/16W**	**[M]**
R706	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R707	**ERJ3GEY0R00V**	**0 1/16W**	**[M]**
R708	**ERJ3GEY0R00V**	**0 1/16W**	**[M]**
R709	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R711	**ERJ3GEYJ823V**	**82K 1/16W**	**[M]**
R712	**D0GB821JA002**	**820 1/16W**	**[M]**
R714	**ERJ3GEYJ221V**	**220 1/16W**	**[M]**
R715	**D0GB272JA002**	**2.7K 1/16W**	**[M]**
R717	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R718	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R720	**D0GB105JA002**	**1M 1/16W**	**[M]**
R721	**D0GB101JA002**	**100 1/16W**	**[M]**
R723	**D0GB562JA002**	**5.6K 1/16W**	**[M]**
R725	**ERJ3GEYJ561V**	**560 1/16W**	**[M]**
R727	**D0GB152JA002**	**1.5K 1/16W**	**[M]**
R728	**D0GB183JA002**	**18K 1/16W**	**[M]**
R729	**D0GB152JA002**	**1.5K 1/16W**	**[M]**
R731	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R735	**D0GB101JA002**	**100 1/16W**	**[M]**
R736	**D0GB100JA002**	**10 1/16W**	**[M]**
R737	**ERJ3GEYJ682V**	**6.8K 1/16W**	**[M]**
R738	**ERJ3GEYJ682V**	**6.8K 1/16W**	**[M]**
R739	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R742	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R743	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
R744	D0GB393JA002	39K 1/16W	[M]
R749	D0GB183JA002	18K 1/16W	[M]
R750	ERJ3GEYJ5R6V	5.6 1/16W	[M]
R753	D0GB100JA002	10 1/16W	[M]
R760	D0GB101JA002	100 1/16W	[M]
R761	ERJ3GEYJ103V	10K 1/16W	[M]
R762	ERJ3GEYJ103V	10K 1/16W	[M]
R763	ERJ3GEYJ103V	10K 1/16W	[M]
R801	D0GB106JA008	10M 1/16W	[M]
R802	ERJ3GEYJ223V	22K 1/16W	[M]
R803	ERJ3GEYJ223V	22K 1/16W	[M]
R804	ERJ3GEYJ334V	330K 1/16W	[M]
R805	ERJ3GEYJ472V	4.7K 1/16W	[M]
R806	ERJ3GEYJ472V	4.7K 1/16W	[M]
R807	ERJ3GEYJ681V	680 1/16W	[M]
R808	ERJ3GEYJ473V	47K 1/16W	[M]
R809	ERJ3GEYJ473V	47K 1/16W	[M]
R810	ERJ3GEYJ472V	4.7K 1/16W	[M]
R811	ERJ3GEYJ472V	4.7K 1/16W	[M]
R812	ERJ3GEYJ472V	4.7K 1/16W	[M]
R813	ERJ3GEYJ472V	4.7K 1/16W	[M]
R814	ERJ3GEYJ472V	4.7K 1/16W	[M]
R815	ERJ3GEYJ474V	470K 1/16W	[M]
R816	ERJ3GEYJ474V	470K 1/16W	[M]
R817	ERJ3GEYJ681V	680 1/16W	[M]
R818	ERJ3GEYJ222V	2.2K 1/16W	[M]
R819	ERJ3GEYJ222V	2.2K 1/16W	[M]
R820	ERJ3GEYJ471V	470 1/16W	[M]
R837	D0GB562JA002	5.6K 1/16W	[M]
R838	D0GB562JA002	5.6K 1/16W	[M]
R839	ERJ3GEYJ221V	220 1/16W	[M]
R848	ERJ3GEY0R00V	0 1/16W	[M]
R850	ERJ3GEYJ102V	1K 1/16W	[M]
R851	ERJ3GEYJ102V	1K 1/16W	[M]
R852	ERJ3GEYJ102V	1K 1/16W	[M]
R858	ERJ3GEYJ104V	100K 1/16W	[M]
R859	D0GB183JA002	18K 1/16W	[M]
R861	ERJ3GEYJ222V	2.2K 1/16W	[M]
R863	ERJ3GEYJ473V	47K 1/16W	[M]
R864	D0GB392JA002	3.9K 1/16W	[M]
R866	ERJ3GEYJ473V	47K 1/16W	[M]
R867	D0GB393JA002	39K 1/16W	[M]
R869	ERJ3GEYJ103V	10K 1/16W	[M]
R870	ERJ3GEYJ334V	330K 1/16W	[M]
R872	ERJ3GEYJ103V	10K 1/16W	[M]
R873	ERJ3GEY0R00V	0 1/16W	[M]
R874	D0GB332JA002	3.3K 1/16W	[M]
R875	D0GB152JA002	1.5K 1/16W	[M]
R877	D0GB332JA002	3.3K 1/16W	[M]
R878	ERJ3GEY0R00V	0 1/16W	[M]
R880	D0GB332JA002	3.3K 1/16W	[M]
R881	ERJ3GEYJ104V	100K 1/16W	[M]
R882	ERJ3GEYJ104V	100K 1/16W	[M]
R884	D0GB101JA002	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R885	D0GB101JA002	100 1/16W	[M]
R886	D0GB101JA002	100 1/16W	[M]
R887	ERJ3GEY0R00V	0 1/16W	[M]
R888	ERJ3GEY0R00V	0 1/16W	[M]
R901	ERDS2TJ102T	1K 1/4W	[M]
R902	ERDS2TJ102T	1K 1/4W	[M]
R903	ERDS2TJ122T	1.2K 1/4W	[M]
R904	ERDS2TJ182T	1.8K 1/4W	[M]
R905	ERDS2TJ222T	2.2K 1/4W	[M]
R906	ERDS2TJ272T	2.7K 1/4W	[M]
R907	ERDS2TJ472T	4.7K 1/4W	[M]
R908	ERDS2TJ682T	6.8K 1/4W	[M]
R909	ERDS2TJ103T	10K 1/4W	[M]
R910	ERDS2TJ223T	22K 1/4W	[M]
R911	ERDS2TJ104T	100K 1/4W	[M]
R912	ERDS2TJ473T	47K 1/4W	[M]
R913	ERDS2TJ473T	47K 1/4W	[M]
R914	ERDS2TJ563T	56K 1/4W	[M]
R915	ERDS2TJ470T	47 1/4W	[M]
R916	ERDS2TJ104T	100K 1/4W	[M]
R917	ERDS2TJ563T	56K 1/4W	[M]
R918	ERDS2TJ470T	47 1/4W	[M]
R919	ERDS2TJ103T	10K 1/4W	[M]
R920	ERDS2TJ103T	10K 1/4W	[M]
R921	ERDS2TJ103T	10K 1/4W	[M]
R922	ERDS2TJ103T	10K 1/4W	[M]
R924	ERDS2TJ103T	10K 1/4W	[M]
R951	ERDS2TJ332T	3.3K 1/4W	[M]
R952	ERDS2TJ222T	2.2K 1/4W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R954	ERDS1FVJ100T	10 1/2W	[M]
R955	ERDS1FVJ100T	10 1/2W	[M]
R956	ERDS1FVJ100T	10 1/2W	[M]
R957	ERDS2TJ103T	10K 1/4W	[M]
R958	ERDS2TJ103T	10K 1/4W	[M]
R959	ERD2FCVJ4R7T	4.7 1/4W	[M]
R960	ERDS2TJ472T	4.7K 1/4W	[M]
R961	ERDS2TJ151T	150 1/4W	[M]
R970	ERDS2TJ151T	150 1/4W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R974	ERDS2TJ182T	1.8K 1/4W	[M]
R975	ERDS2TJ182T	1.8K 1/4W	[M]
R978	ERDS2TJ101T	100 1/4W	[M]
R979	ERDS2TJ101T	100 1/4W	[M]
R988	ERDS2TJ103T	10K 1/4W	[M]
R989	ERDS2TJ103T	10K 1/4W	[M]
R1001	D0GB1R0JA002	1 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	D0GB152JA002	1.5K 1/16W	[M]
R1005	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1006	ERJ3GEYJ102V	1K 1/16W	[M]
R1007	ERD25FVJ4R7T	4.7 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1009	D0GB183JA002	18K 1/16W	[M]
R1010	D0GB183JA002	18K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1013	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1014	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1015	ERJ3GEYJ470V	47 1/16W	[M]
R1016	ERJ3GEYJ470V	47 1/16W	[M]
R1017	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1018	D0GB392JA002	3.9K 1/16W	[M]
R1019	D0GB392JA002	3.9K 1/16W	[M]
R1022	ERJ3GEYJ103V	10K 1/16W	[M]
R1026	ERJ3GEYJ102V	1K 1/16W	[M]
R1028	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1029	D0GB475JA008	4.7M 1/16W	[M]
R1030	D0GB101JA002	100 1/16W	[M]
R1031	D0GB273JA002	27K 1/16W	[M]
R1032	ERJ3GEYJ103V	10K 1/16W	[M]
R1035	ERJ3GEYJ103V	10K 1/16W	[M]
R1038	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1039	ERJ3GEYJ153V	15K 1/16W	[M]
R1040	ERJ3GEY0R00V	0 1/16W	[M]
R1045	ERJ3GEYJ104V	100K 1/16W	[M]
R1046	ERJ3GEYJ104V	100K 1/16W	[M]
R1047	ERJ3GEYJ102V	1K 1/16W	[M]
R1048	ERJ3GEYJ102V	1K 1/16W	[M]
R1049	D0GB105JA002	1M 1/16W	[M]
R1050	D0GB105JA002	1M 1/16W	[M]
R1051	ERJ3GEYJ221V	220 1/16W	[M]
R1052	ERJ3GEYJ221V	220 1/16W	[M]
R1053	ERJ3GEYJ681V	680 1/16W	[M]
R1054	ERJ3GEYJ681V	680 1/16W	[M]
R1055	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1056	ERJ3GEYJ221V	220 1/16W	[M]
R1057	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1058	D0GB272JA002	2.7K 1/16W	[M]
R1059	ERJ3GEYJ103V	10K 1/16W	[M]
R1060	ERJ3GEYJ391V	390 1/16W	[M]
R1061	ERJ3GEY0R00V	0 1/16W	[M]
R1084	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1085	ERJ3GEYJ473V	47K 1/16W	[M]
R1086	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1087	ERJ3GEYJ473V	47K 1/16W	[M]
R1090	ERJ3GEYJ221V	220 1/16W	[M]
R1091	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1092	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1093	ERJ3GEYJ102V	1K 1/16W	[M]
R1094	ERJ3GEYJ102V	1K 1/16W	[M]
R1095	ERJ3GEYJ104V	100K 1/16W	[M]
R1096	ERJ3GEYJ104V	100K 1/16W	[M]
R1097	ERJ3GEYJ103V	10K 1/16W	[M]
R1098	ERJ3GEYJ103V	10K 1/16W	[M]
		CAPACITORS	

Ref. No.	Part No.	Part Name & Description	Remarks
C1	**ECEA1CKA101B**	**100 16V**	**[M]**
C101	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C102	**ECEA1CKA101B**	**100 16V**	**[M]**
C103	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C104	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C105	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C106	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C107	**F1H1E473A062**	**0.047 25V**	**[M]**
C108	**ECJ1VC1H080D**	**8P 50V**	**[M]**
C109	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C110	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C111	**ECEA1HKA4R7B**	**4.7 50V**	**[M]**
C112	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C113	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C114	**ECEA1HKA3R3B**	**3.3 50V**	**[M]**
C115	**ECEA1HKA4R7B**	**4.7 50V**	**[M]**
C116	**ECJ1VB1C333K**	**0.033 16V**	**[M]**
C117	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C118	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C119	**F0A2A561A015**	**560P 100V**	**[M]**
C120	**ECEA1CKA100B**	**10 16V**	**[M]**
C121	**ECEA1HKAR47B**	**0.47 50V**	**[M]**
C122	**ECEA1HKA010B**	**1 50V**	**[M]**
C123	**ECEA1HKA010B**	**1 50V**	**[M]**
C124	**ECJ1VC1H101K**	**100P 50V**	**[M]**
C125	**ECEA1CKA220B**	**22 16V**	**[M]**
C126	**ECJ2VF1C105Z**	**1 16V**	**[M]**
C127	**ECEA1CKA220B**	**22 16V**	**[M]**
C129	**ECEA0JKA101B**	**100 6.3V**	**[M]**
C130	**ECEA0JKA101B**	**100 6.3V**	**[M]**
C131	**ECUV1H101JCV**	**100P 50V**	**[M]**
C132	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C133	**ECJ1VC1H270J**	**27P 50V**	**[M]**
C134	**ECJ1VC1H270J**	**27P 50V**	**[M]**
C136	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C137	**ECJ1VB1H332K**	**3300P 50V**	**[M]**
C138	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C139	**ECEA1HKA4R7B**	**4.7 50V**	**[M]**
C141	**ECEA1HKA010B**	**1 50V**	**[M]**
C142	**ECEA1HKA010B**	**1 50V**	**[M]**
C143	**ECJ1VB1H472K**	**4700P 50V**	**[M]**
C144	**ECJ1VB1H472K**	**4700P 50V**	**[M]**
C147	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C148	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C149	**ECUV1C104ZFV**	**0.1 16V**	**[M]**
C201	**ECJ1VB1H681K**	**680P 50V**	**[M]**
C202	**ECJ1VC1H101K**	**100P 50V**	**[M]**
C203	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C204	**ECJ1VB1H221K**	**220P 50V**	**[M]**
C205	**ECJ1VB1H221K**	**220P 50V**	**[M]**
C206	**ECEA1CKA100B**	**10 16V**	**[M]**
C207	**ECEA1CKA100B**	**10 16V**	**[M]**
C208	**ECEA1CKA100B**	**10 16V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C209	ECEA1CKA100B	10 16V	[M]
C211	ECEA1CKA100B	10 16V	[M]
C212	ECEA1CKA100B	10 16V	[M]
C213	ECEA1HKAR47B	0.47 50V	[M]
C214	ECEA1HKAR47B	0.47 50V	[M]
C215	F1J1E224A126	0.22 25V	[M]
C216	F1J1E224A126	0.22 25V	[M]
C217	ECUV1H152KBV	1500P 50V	[M]
C218	ECEA1CKA100B	10 16V	[M]
C219	ECQV1H474JZ3	0.47 50V	[M]
C220	ECQV1H474JZ3	0.47 50V	[M]
C221	ECEA1CKA100B	10 16V	[M]
C222	ECJ2VB1H333K	0.033 50V	[M]
C223	ECJ1VC1H101K	100P 50V	[M]
C224	ECEA1HKA010B	1 50V	[M]
C225	ECJ1VC1H101K	100P 50V	[M]
C226	ECJ1VC1H470J	47P 50V	[M]
C227	ECEA1CKA100B	10 16V	[M]
C228	ECEA1CKA100B	10 16V	[M]
C229	ECEA1HKA010B	1 50V	[M]
C230	ECJ2VB1H153K	0.015 50V	[M]
C231	F1H1H821A761	820P 50V	[M]
C232	F1H1H822A022	8200P 50V	[M]
C233	F1H1H822A022	8200P 50V	[M]
C234	ECEA1HKA010B	1 50V	[M]
C235	ECEA1HKA010B	1 50V	[M]
C238	F1D1H473A012	0.047 50V	[M]
C240	ECBT1H222KB5	2200P 50V	[M]
C240	ECJ1VB1H102K	1000P 50V	[M]
C241	ECBT1H390J5	39P 50V	[M]
C242	ECBT1H222KB5	2200P 50V	[M]
C243	ECBT1H390J5	39P 50V	[M]
C244	F1D1H473A012	0.047 50V	[M]
C245	F1D1H473A012	0.047 50V	[M]
C250	ECEA1HKAR22B	0.22 50V	[M]
C251	ECEA1HKA010B	1 50V	[M]
C252	ECEA1HKA010B	1 50V	[M]
C258	ECBT1H222KB5	2200P 50V	[M]
C260	F1D1H473A012	0.047 50V	[M]
C277	ECBT1H390J5	39P 50V	[M]
C278	ECBT1H332KB5	3300P 50V	[M]
C279	ECBT1H332KB5	3300P 50V	[M]
C280	ECBT1H332KB5	3300P 50V	[M]
C297	ECEA1CKA100B	10 16V	[M]
C298	ECEA1CKA330B	33 16V	[M]
C302	ECJ1VB1E103K	0.01 25V	[M]
C303	ECJ1VB1H102K	1000P 50V	[M]
C304	ECEA1HKA010B	1 50V	[M]
C305	ECEA1CKA221B	220 16V	[M]
C306	ECEA1HKA010B	1 50V	[M]
C308	ECJ1VC1H121J	120P 50V	[M]
C309	ECEA1AKN100B	10 10V	[M]
C310	ECEA0JKA101B	100 6.3V	[M]
C311	ECEA0JKA101B	100 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C312	ECJ1VB1E103K	0.01 25V	[M]
C313	ECJ1VB1E103K	0.01 25V	[M]
C320	ECEA1AKA220B	22 10V	[M]
C321	ECJ1VB1H103K	0.01 50V	[M]
C322	ECUV1C104KBV	0.1 16V	[M]
C323	ECUV1C104ZFV	0.1 16V	[M]
C324	ECUV1C104ZFV	0.1 16V	[M]
C325	ECJ1VC1H101K	100P 50V	[M]
C326	ECJ1VF1C474Z	0.47 16V	[M]
C328	ECJ1VC1H101K	100P 50V	[M]
C329	ECJ1VC1H101K	100P 50V	[M]
C330	ECJ1VC1H101K	100P 50V	[M]
C331	ECJ1VC1H101K	100P 50V	[M]
C332	ECJ1VC1H101K	100P 50V	[M]
C336	ECUV1H104KBV	0.1 50V	[M]
C338	ECJ1VB1E103K	0.01 25V	[M]
C339	ECJ1VB1E103K	0.01 25V	[M]
C350	ECJ1VC1H101K	100P 50V	[M]
C351	ECJ1VC1H101K	100P 50V	[M]
C352	ECJ1VC1H101K	100P 50V	[M]
C353	ECJ1VC1H101K	100P 50V	[M]
C354	ECJ1VC1H101K	100P 50V	[M]
C355	ECJ1VC1H101K	100P 50V	[M]
C356	ECJ1VC1H101K	100P 50V	[M]
C357	ECJ1VC1H102J	1000P 50V	[M]
C358	ECJ1VB1H102K	1000P 50V	[M]
C359	ECJ1VB1H102K	1000P 50V	[M]
C360	ECUV1H104KBV	0.1 50V	[M]
C361	ECJ1VC1H180J	18P 50V	[M]
C362	ECJ1VC1H180J	18P 50V	[M]
C363	ECJ1VB1H223K	0.022 50V	[M]
C364	F1H1H331A789	330P 50V	[M]
C365	F1H1H331A789	330P 50V	[M]
C366	F1H1H331A789	330P 50V	[M]
C367	ECJ1VC1H470J	47P 50V	[M]
C368	ECJ1VC1H470J	47P 50V	[M]
C369	ECJ1VC1H560J	56P 50V	[M]
C370	ECJ1VB1E103K	0.01 25V	[M]
C371	ECJ1VB1C103K	0.01 16V	[M]
C372	ECA1CM221B	220 16V	[M]
C373	RCE1HKN100BG	10P 50V	[M]
C374	ECJ1VC1H560J	56P 50V	[M]
C375	ECA1CM331B	330 16V	[M]
C376	ECJ1VB1E103K	0.01 25V	[M]
C377	ECJ1VB1E103K	0.01 25V	[M]
C378	ECEA1CKA100B	10 16V	[M]
C379	ECJ1VB1H561K	560P 50V	[M]
C380	ECJ1VB1H561K	560P 50V	[M]
C381	ECJ1VB1H561K	560P 50V	[M]
C383	ECJ1VB1H561K	560P 50V	[M]
C384	ECJ1VB1H561K	560P 50V	[M]
C385	ECJ1VB1H561K	560P 50V	[M]
C387	ECUV1H680JCV	68P 50V	[M]
C388	ECUV1H680JCV	68P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C389	ECEA0JKA101B	100 6.3V	[M]
C390	ECEA0JKA470B	47 6.3V	[M]
C391	ECEA1AKA101B	100 10V	[M]
C392	ECEA1HKA010B	1 50V	[M]
C393	ECEA1HKA100B	10 50V	[M]
C394	ECEA1HKA100B	10 50V	[M]
C395	ECEA1HKA100B	10 50V	[M]
C396	ECEA1HKA2R2B	2.2 50V	[M]
C397	RCE1AM102B	1000P 10V	[M]
C398	ECJ1VB1H102K	1000P 50V	[M]
C399	ECEA0JKA101B	100 6.3V	[M]
C400	ECJ1VB1H103K	0.01 50V	[M]
C401	ECJ1VB1H681K	680P 50V	[M]
C402	ECJ1VC1H101K	100P 50V	[M]
C403	ECJ1VB1H102K	1000P 50V	[M]
C404	ECJ1VB1H221K	220P 50V	[M]
C405	ECJ1VB1H221K	220P 50V	[M]
C406	ECEA1CKA100B	10 16V	[M]
C407	ECEA1CKA100B	10 16V	[M]
C408	ECEA1CKA100B	10 16V	[M]
C409	ECEA1CKA100B	10 16V	[M]
C410	ECJ1VB1A224K	0.22 10V	[M]
C411	ECEA1CKA100B	10 16V	[M]
C412	ECEA1CKA100B	10 16V	[M]
C413	ECEA1HKAR47B	0.47 50V	[M]
C414	ECEA1HKAR47B	0.47 50V	[M]
C415	F1J1E224A126	0.22 25V	[M]
C416	F1J1E224A126	0.22 25V	[M]
C417	ECUV1H152KBV	1500P 50V	[M]
C418	ECEA1CKA100B	10 16V	[M]
C419	ECQV1H474JZ3	0.47 50V	[M]
C420	ECQV1H474JZ3	0.47 50V	[M]
C421	ECEA1CKA100B	10 16V	[M]
C422	ECJ2VB1H333K	0.033 50V	[M]
C423	ECJ1VC1H101K	100P 50V	[M]
C424	ECEA1HKA010B	1 50V	[M]
C425	ECJ1VC1H101K	100P 50V	[M]
C426	ECJ1VC1H470J	47P 50V	[M]
C427	ECEA1CKA100B	10 16V	[M]
C428	ECEA1CKA100B	10 16V	[M]
C429	ECEA1HKA010B	1 50V	[M]
C430	ECJ2VB1H153K	0.015 50V	[M]
C431	F1H1H821A761	820P 50V	[M]
C432	F1H1H822A022	8200P 50V	[M]
C433	F1H1H822A022	8200P 50V	[M]
C434	ECEA1HKA010B	1 50V	[M]
C435	ECEA1HKA010B	1 50V	[M]
C438	F1D1H473A012	0.047 50V	[M]
C440	ECBT1H222KB5	2200P 50V	[M]
C440	ECJ1VB1H102K	1000P 50V	[M]
C441	ECBT1H390J5	39P 50V	[M]
C442	ECBT1H222KB5	2200P 50V	[M]
C442	ECJ1VB1A224K	0.22 10V	[M]
C443	ECBT1H390J5	39P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C443	ECUV1H104KBV	0.1 50V	[M]
C444	ECJ1VB1H471K	470P 50V	[M]
C444	F1D1H473A012	0.047 50V	[M]
C445	F1D1H473A012	0.047 50V	[M]
C450	ECEA1HKAR22B	0.22 50V	[M]
C451	ECEA1HKA010B	1 50V	[M]
C452	ECEA1HKA010B	1 50V	[M]
C458	ECBT1H222KB5	2200P 50V	[M]
C460	F1D1H473A012	0.047 50V	[M]
C477	ECBT1H390J5	39P 50V	[M]
C478	ECBT1H332KB5	3300P 50V	[M]
C479	ECBT1H332KB5	3300P 50V	[M]
C480	ECBT1H332KB5	3300P 50V	[M]
C497	ECEA1CKA100B	10 16V	[M]
C501	ECBT1H103KB5	0.01 50V	[M]
C502	F2A0J471A201	470P 6.3V	[M]
C503	ECBT1H102KB5	1000P 50V	[M]
C504	ECKR1H103MD5	0.01 50V	[M]
C505	ECEA1CKA101B	100 16V	[M]
C506	ECKR1H103MD5	0.01 50V	[M]
C507	ECEA1CKA100B	10 16V	[M]
C508	ECEA1CKA100B	10 16V	[M]
C509	ECKR1H103MD5	0.01 50V	[M]
C510	ECA1EM101B	100 25V	[M]
C511	ECKR1H103MD5	0.01 50V	[M]
C512	ECEA1EKA330B	33 25V	[M]
C513	ECEA1EKA100B	10 25V	[M]
C514	ECKR1H103MD5	0.01 50V	[M]
C515	ECBT1H103KB5	0.01 50V	[M]
C518	ECEA1HKA010B	1 50V	[M]
C519	ECEA2AU100B	10 100V	[M]
C530	ECQV1H184JL3	0.18 50V	[M]
C531	ECA1HM332B	3300 50V	[M]
C532	ECQV1H184JL3	0.18 50V	[M]
C538	ECEA1HKA2R2B	2.2 50V	[M]
C541	ECA1HM332B	3300 50V	[M]
C620	ECBT1E223ZF5	0.022 25V	[M]
C621	ECBT1E223ZF5	0.022 25V	[M]
C634	ECBT1H221KB5	220P 50V	[M]
C635	ECBT1H221KB5	220P 50V	[M]
C636	F1D1H1040002	0.1 50V	[M]
C637	ECBT1E103ZF5	0.01 25V	[M]
C638	ECBT1H102KB5	1000P 50V	[M]
C639	ECEA0JKA470B	47 6.3V	[M]
C640	ECEA1HKA3R3B	3.3 50V	[M]
C641	ECEA1VKA220B	22 35V	[M]
C642	ECEA1VKA220B	22 35V	[M]
C643	F1D1H1040002	0.1 50V	[M]
C669	ECBT1H101KB5	100P 50V	[M]
C671	F1D1H1040002	0.1 50V	[M]
C672	ECBT1H101KB5	100P 50V	[M]
C673	ECBT1H101KB5	100P 50V	[M]
C674	ECEA1EKA470B	47 25V	[M]
C675	F1D1H1040002	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C678	ECBT1H103KB5	0.01 50V	[M]
C681	ECBT1H101KB5	100P 50V	[M]
C682	ECBT1H101KB5	100P 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECJ1VB0J474K	0.47 6.3V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUVNC104KBV	0.1 16V	[M]
C705	ECUVNC104ZFV	0.1 16V	[M]
C706	F1H0J105A002	1 6.3V	[M]
C707	ECJ1VB1C393K	0.039 16V	[M]
C710	ECJ1VB1H471K	470P 50V	[M]
C711	ECUVNC104KBV	0.1 16V	[M]
C712	ECUVNC104KBV	0.1 16V	[M]
C713	ECUVNC104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECUV1C224KBV	0.22 16V	[M]
C716	ECJ1VB1H681K	680P 50V	[M]
C717	ECUVNC104ZFV	0.1 16V	[M]
C718	ECJ1VB1C823K	0.082 16V	[M]
C721	ECJ1VC1H120J	12P 50V	[M]
C722	ECJ1VC1H120J	12P 50V	[M]
C723	ECEA0JKA221I	220 6.3V	[M]
C724	ECUVNC104KBV	0.1 16V	[M]
C725	ECJ1VB1H102K	1000P 50V	[M]
C726	ECJ1VB1H102K	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C729	ECUVNC104KBV	0.1 16V	[M]
C730	ECUVNC104ZFV	0.1 16V	[M]
C731	ECEA0JKA221I	220 6.3V	[M]
C733	ECUVNC104KBV	0.1 16V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUVNC104ZFV	0.1 16V	[M]
C736	ECUVNC104ZFV	0.1 16V	[M]
C737	ECUVNC104ZFV	0.1 16V	[M]
C738	F1H1C473A088	0.047 16V	[M]
C739	ECJ1VB1H103K	0.01 50V	[M]
C740	ECUVNC104KBV	0.1 16V	[M]
C741	ECJ1VB1H102K	1000P 50V	[M]
C742	F1H1C473A088	0.047 16V	[M]
C743	ECUVNC104ZFV	0.1 16V	[M]
C744	ECJ1VB1C153K	0.015 16V	[M]
C746	ECUVNC104KBV	0.1 16V	[M]
C747	ECJ1VB1H471K	470P 50V	[M]
C748	ECUVNC104KBV	0.1 16V	[M]
C749	F1H1H392A022	3900P 50V	[M]
C750	ECUVNC104KBV	0.1 16V	[M]
C751	ECUVNC104KBV	0.1 16V	[M]
C752	ECJ1VB1H103K	0.01 50V	[M]
C753	ECJ1VB1H471K	470P 50V	[M]
C755	ECUVNC104KBV	0.1 16V	[M]
C757	ECEA0JKA101I	100 6.3V	[M]
C758	ECUVNC104KBV	0.1 16V	[M]
C770	ECUVNC104KBV	0.1 16V	[M]

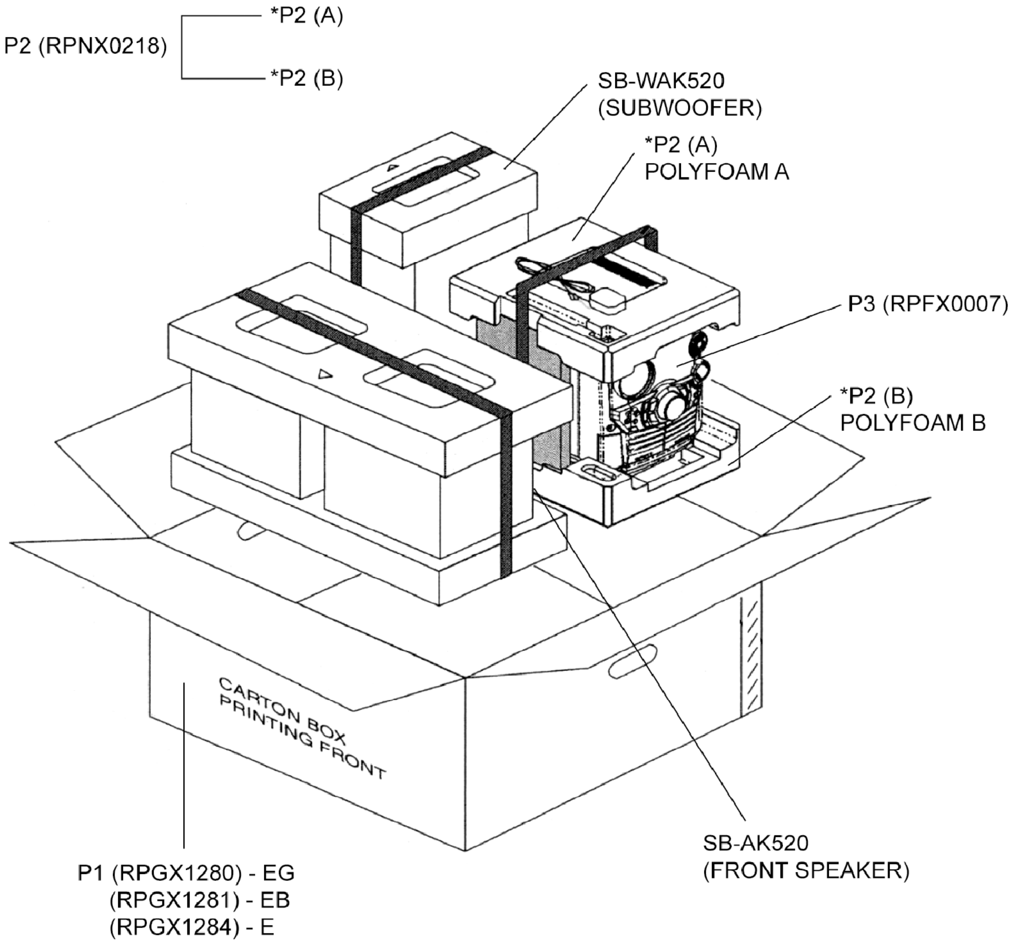
Ref. No.	Part No.	Part Name & Description	Remarks
C780	ECUVNC104KBV	0.1 16V	[M]
C781	ECUVNC104KBV	0.1 16V	[M]
C782	ECUVNC104KBV	0.1 16V	[M]
C865	ECJ1VB1E103K	0.01 25V	[M]
C866	ECEA1CKA100B	10 16V	[M]
C871	ECEA1CKA100B	10 16V	[M]
C872	ECJ1VB1E103K	0.01 25V	[M]
C874	ECEA1CKA100B	10 16V	[M]
C875	ECEA1CKA100B	10 16V	[M]
C877	ECJ2VB1C184K	0.18 16V	[M]
C879	ECUV1H101JCV	100P 50V	[M]
C880	ECJ2VB1H103K	0.01 50V	[M]
C881	ECUV1H683KBV	0.068 50V	[M]
C882	ECUV1H101JCV	100P 50V	[M]
C883	ECJ1VC1H470J	47P 50V	[M]
C884	ECEA1CKA100B	10 16V	[M]
C901	ECBT1H101KB5	100P 50V	[M]
C902	ECBT1H101KB5	100P 50V	[M]
C918	ECBT1H101KB5	100P 50V	[M]
C919	ECBT1H101KB5	100P 50V	[M]
C920	ECBT1H101KB5	100P 50V	[M]
C921	ECBT1H101KB5	100P 50V	[M]
C922	ECBT1H101KB5	100P 50V	[M]
C923	ECBT1H101KB5	100P 50V	[M]
C924	ECBT1H101KB5	100P 50V	[M]
C925	ECBT1H390J5	39P 50V	[M]
C950	ECA1EM472B	4700 25V	[M]
C951	ECKR1H103ZF5	0.01 50V	[M]
C952	ECEA1AKA470B	47 10V	[M]
C953	ECKR1H103MD5	0.01 50V	[M]
C954	ECKR1H103ZF5	0.01 50V	[M]
C955	ECA1HM101B	100 50V	[M]
C956	ECA1JM101B	100 63V	[M]
C957	ECA2AM100B	10 100V	[M]
C958	ECKR1H103MD5	0.01 50V	[M]
C959	ECKR2H103ZF5	0.01 500V	[M]
C960	ECQE1104KF3	0.1 100V	[M]
C963	ECEA1VKA4R7B	4.7 35V	[M]
C964	ECBT1H103KB5	0.01 50V	[M]
C965	ECA1CM102B	1000 16V	[M]
C1001	F1H1H103A753	0.01 50V	[M]
C1002	ECEA1HKN2R2B	2.2 50V	[M]
C1003	ECUV1H152KBV	1500P 50V	[M]
C1006	ECEA1HKA010B	1 50V	[M]
C1007	F0A2A472A015	4700P 100V	[M]
C1008	ECEA1HKA010B	1 50V	[M]
C1009	ECEA1CKA470B	47 16V	[M]
C1010	ECA1EM101B	100 25V	[M]
C1011	ECQV1H473JZ3	0.047 50V	[M]
C1012	ECJ1VB1H102K	1000P 50V	[M]
C1013	ECJ1VB1H102K	1000P 50V	[M]
C1014	ECJ1VB1H102K	1000P 50V	[M]
C1015	ECJ1VB1H102K	1000P 50V	[M]
C1016	ECJ1VB1H222K	2200P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1017	ECJ1VB1H222K	2200P 50V	[M]
C1018	ECJ1VB1H103K	0.01 50V	[M]
C1019	ECJ1VB1H102K	1000P 50V	[M]
C1020	ECJ1VB1H471K	470P 50V	[M]
C1021	ECJ1VB1H471K	470P 50V	[M]
C1022	ECJ1VB1H102K	1000P 50V	[M]
C1023	ECJ1VB1H102K	1000P 50V	[M]
C1026	ECEA0JKA470B	47 6.3V	[M]
C1027	ECJ1VB1H102K	1000P 50V	[M]
C1030	ECEA1AKA101B	100 10V	[M]
C1031	ECEA1AKA101B	100 10V	[M]
C1032	F1C1C183A001	0.018 16V	[M]
C1033	F1C1C183A001	0.018 16V	[M]
C1034	ECEA1HKA3R3B	3.3 50V	[M]
C1035	ECEA1HKA3R3B	3.3 50V	[M]
C1036	ECJ1VB1C333K	0.033 16V	[M]
C1037	ECEA1HKA3R3B	3.3 50V	[M]
C1038	ECJ1VB1H221K	220P 50V	[M]
C1039	ECJ1VB1H221K	220P 50V	[M]
C1040	ECEA1CKA100B	10 16V	[M]
C1041	ECEA1CKA100B	10 16V	[M]
C1042	ECEA1CKA220B	22 16V	[M]
C1043	ECEA1HKA4R7B	4.7 50V	[M]
C1044	ECEA1AKA330B	33 10V	[M]
C1045	ECEA1AKA220B	22 10V	[M]
C1046	ECEA1CKA221B	220 16V	[M]
C1047	ECEA1HKA010B	1 50V	[M]
C1048	ECEA1HKA010B	1 50V	[M]
C1049	ECJ1VB1H102K	1000P 50V	[M]
C1050	ECJ1VB1H102K	1000P 50V	[M]
C1051	ECEA1HKA010B	1 50V	[M]
C1052	ECEA1HKA010B	1 50V	[M]
C1053	ECA1CM221B	220 16V	[M]
C1054	ECEA1HKA3R3B	3.3 50V	[M]
C1055	ECEA1HKA0R1B	0.1 50V	[M]
C1056	ECEA1CKA100B	10 16V	[M]
C1057	ECJ1VB1H102K	1000P 50V	[M]
C1058	ECJ1VB1H102K	1000P 50V	[M]
C1064	ECEA1HKA3R3B	3.3 50V	[M]
		CHIP JUMPER	
RJ705	ERJ3GEY0R00V	0 1/16W	[M]
RJ706	ERJ3GEY0R00V	0 1/16W	[M]
RJ707	ERJ3GEY0R00V	0 1/16W	[M]
RJ712	ERJ3GEY0R00V	0 1/16W	[M]
RJ715	ERJ3GEY0R00V	0 1/16W	[M]
RJ722	ERJ3GEY0R00V	0 1/16W	[M]
RJ733	ERJ3GEY0R00V	0 1/16W	[M]

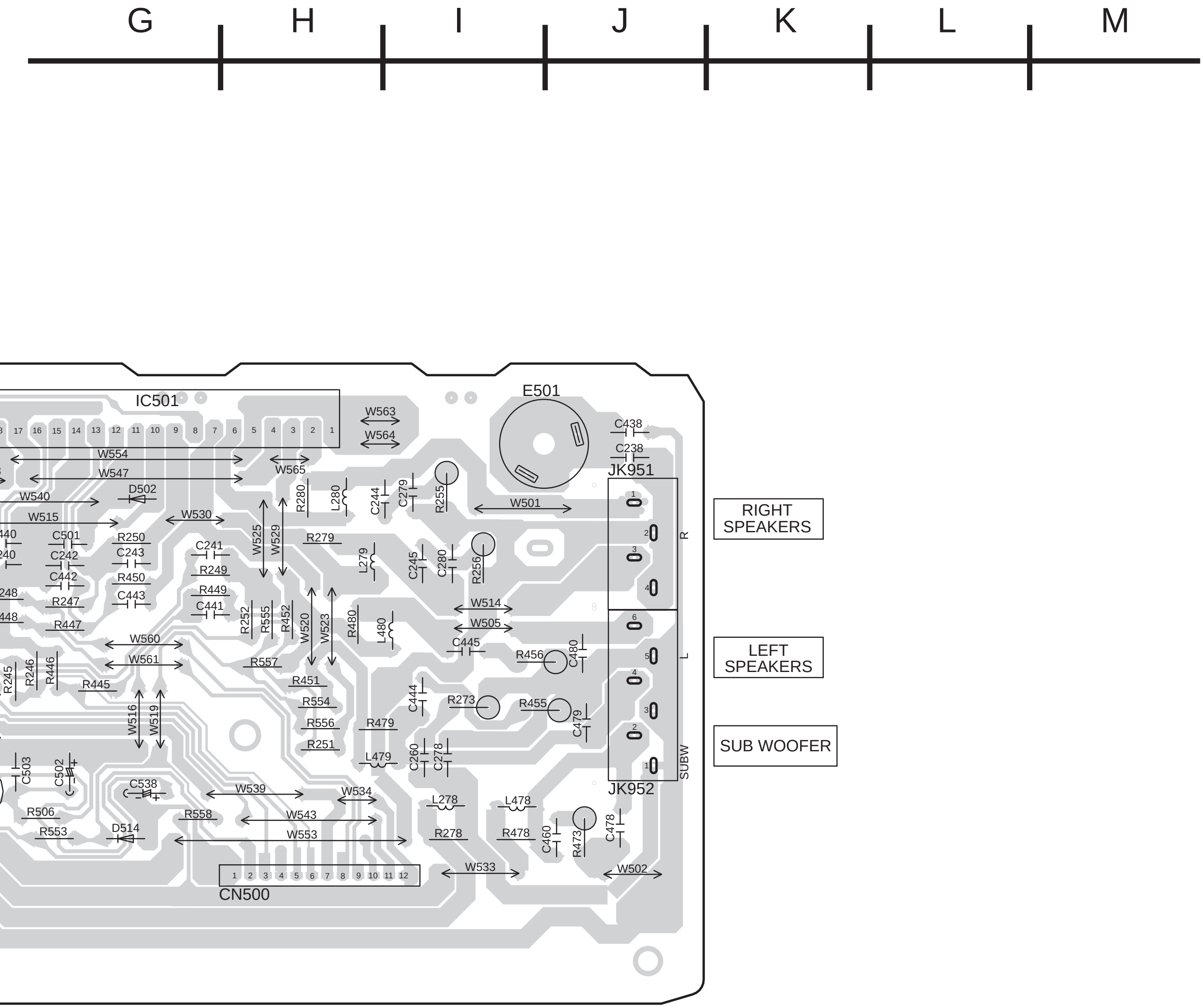
23.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1280	PACKING CASE	[M]EG
P1	RPGX1281	PACKING CASE	[M]EB
P1	RPGX1284	PACKING CASE	[M]E
P2	RPNX0218	POLYFOAM	[M]
P3	RPFX0007	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	N2QAHB000042	REMOTE CONTROL	[M]
A1-1	RKK-HTR0283	R/C BATTERY COVER	[M]
A2	RJA0019-2X	AC CORD	[M]EG/E ⚠
A2	RJA0053-3X	AC CORD	[M]EB ⚠
A3	RQT7333-E	O/I BOOK (Sp/Po/Cz)	[M]E
A3	RQT7334-D	O/I BOOK (Ge/It/Fr)	[M]EG
A3	RQT7335-H	O/I BOOK (Du/Da/Sw)	[M]EG
A3	RQT7336-B	O/I BOOK (En)	[M]EB/E
A4	RSA0007-L	FM ANTENNA	[M]
A5	N1DADYY00002	AM LOOP ANTENNA	[M]
A6	SJP9009	ANT ADAPTER	[M]EB

23.6. Packaging

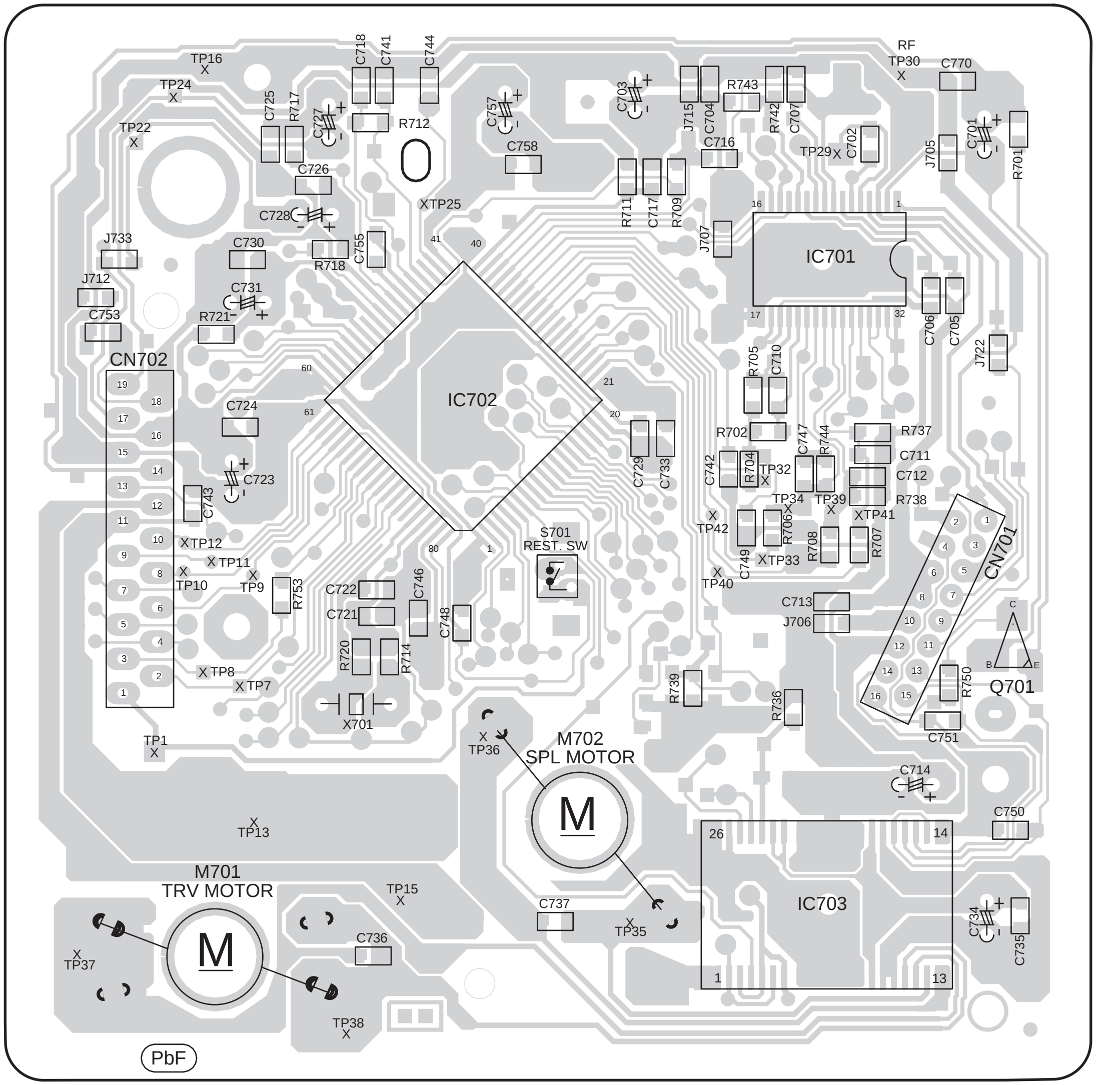

P2 (RPNX0218)
*P2 (A)
*P2 (B)
SB-WAK520
(SUBWOOFER)
*P2 (A)
POLYFOAM A
P3 (RPFX0007)
*P2 (B)
POLYFOAM B
CARTON BOX
PRINTING FRONT
SB-AK520
(FRONT SPEAKER)
P1 (RPGX1280) - EG
(RPGX1281) - EB
(RPGX1284) - E

PRT0401 D/K/J/N/L


G
H
I
J
K
L
M
IC501
W563
W564
E501
C438
C238
JK951
W554
W547
W565
D502
W540
W515
W530
W525
W529
R280
L280
C244
C279
R255
W501
C501
C242
C442
R250
C243
R450
C443
C241
R249
R449
C441
R279
L279
C245
C280
R256
R248
R247
R447
R252
R555
R452
W520
W523
R480
L480
W514
W505
C445
R456
C480
W560
W561
R557
R245
R246
R446
R445
R451
R554
R556
R251
R479
L479
C444
R273
R455
C479
W516
W519
C503
C502
C538
W539
W534
R506
R553
R558
W543
D514
W553
CN500
C260
C278
L278
R278
L478
R478
C460
R473
C478
W533
W502
JK952
R
L
SUBW
RIGHT SPEAKERS
LEFT SPEAKERS
SUB WOOFER

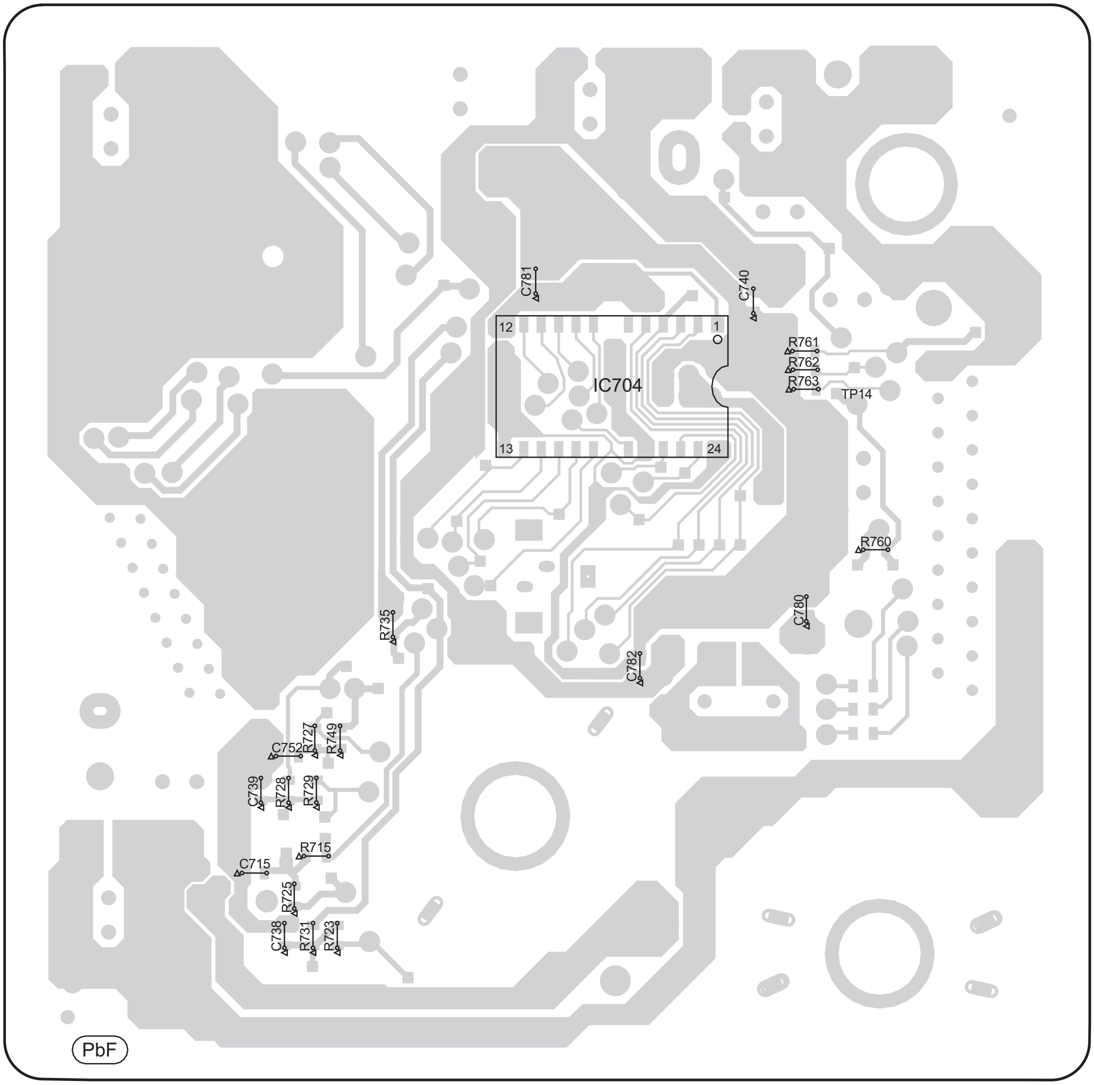
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9

A CD SERVO P.C.B (REPX0405A)


TP16
TP24
TP22
C725
R717
C727
C718
C741
R712
C744
C757
C758
TP25
C726
C728
C730
R718
C755
J733
J712
C731
R721
C753
CN702
C724
C723
C743
TP12
TP11
TP10
TP9
R753
TP8
TP7
TP1
IC702
41
40
60
61
21
20
80
1
C722
C721
C746
C748
R720
R714
X701
S701
REST. SW
C703
J715
C704
R743
R742
C707
C716
TP29
C702
R711
C717
R709
J707
IC701
16
17
32
RF
TP30
C770
J705
C701
R701
C706
C705
J722
R705
C710
R702
C747
R744
R737
C711
C712
R738
C742
R704
TP32
C729
C733
TP34
TP39
TP41
TP42
R706
R708
R707
C749
TP33
TP40
CN701
C713
J706
Q701
C
B
E
R750
R739
R736
C751
C714
C750
TP36
M702
SPL MOTOR
M
TP13
M701
TRV MOTOR
TP15
C737
TP35
IC703
26
14
13
C734
C735
C736
TP37
TP38
PbF

(SIDE A)

A CD SERVO P.C.B (REPX0405A)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
C781
C740
12
1
IC704
13
24
R761
R762
R763
TP14
R760
C780
R735
C782
C752
R727
R749
C739
R728
R729
R715
C715
R725
C738
R731
R723
PbF

(SIDE B)

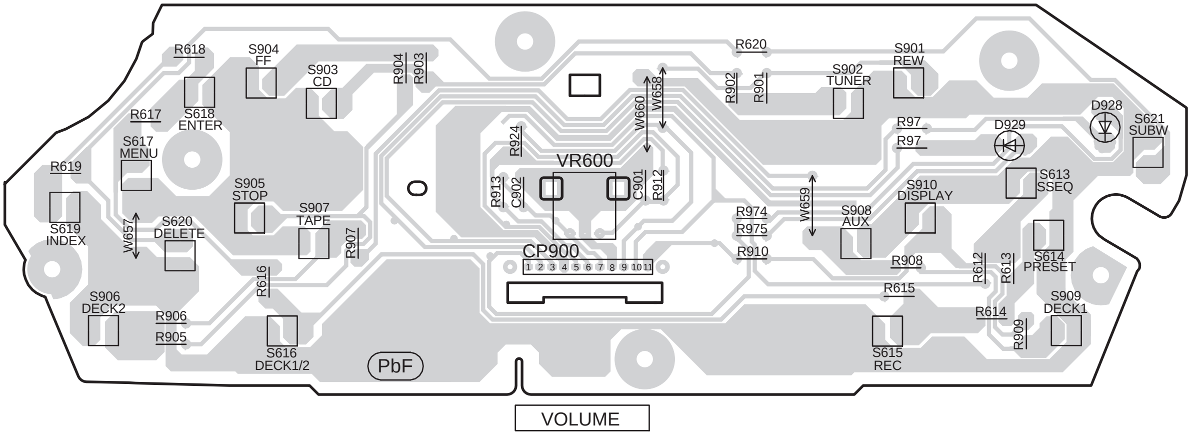
A B C D E F G

1

D TACT SWITCH P.C.B (REPX0425C)

2

3


R618
S904
FF
S903
CD
R904
R903
R620
S901
REW
R902
R901
S902
TUNER
D928
S621
SUBW
R617
S618
ENTER
W660
W658
R97
D929
R97
R924
S617
MENU
R619
VR600
S613
SSEQ
S905
STOP
R913
C902
C901
R912
W659
S910
DISPLAY
S620
DELETE
S907
TAPE
R974
S908
AUX
S614
S619
INDEX
W657
R907
R975
PRESET
CP900
R910
1 2 3 4 5 6 7 8 9 10 11
R908
R612
R613
R616
R615
S909
S906
DECK2
R906
R614
DECK1
R905
R909
S616
DECK1/2
PbF
S615
REC
VOLUME

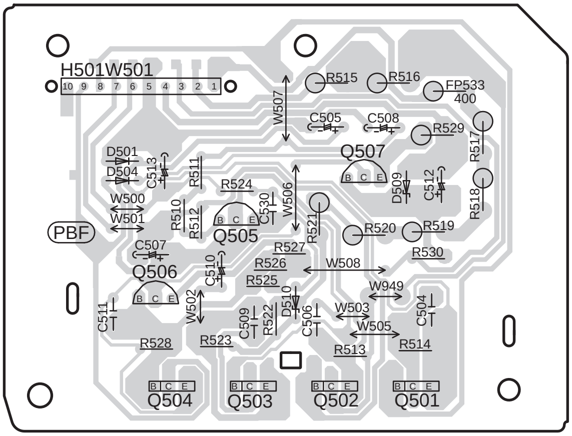
4

5

M POWER(2) P.C.B (REPX0429D)

6

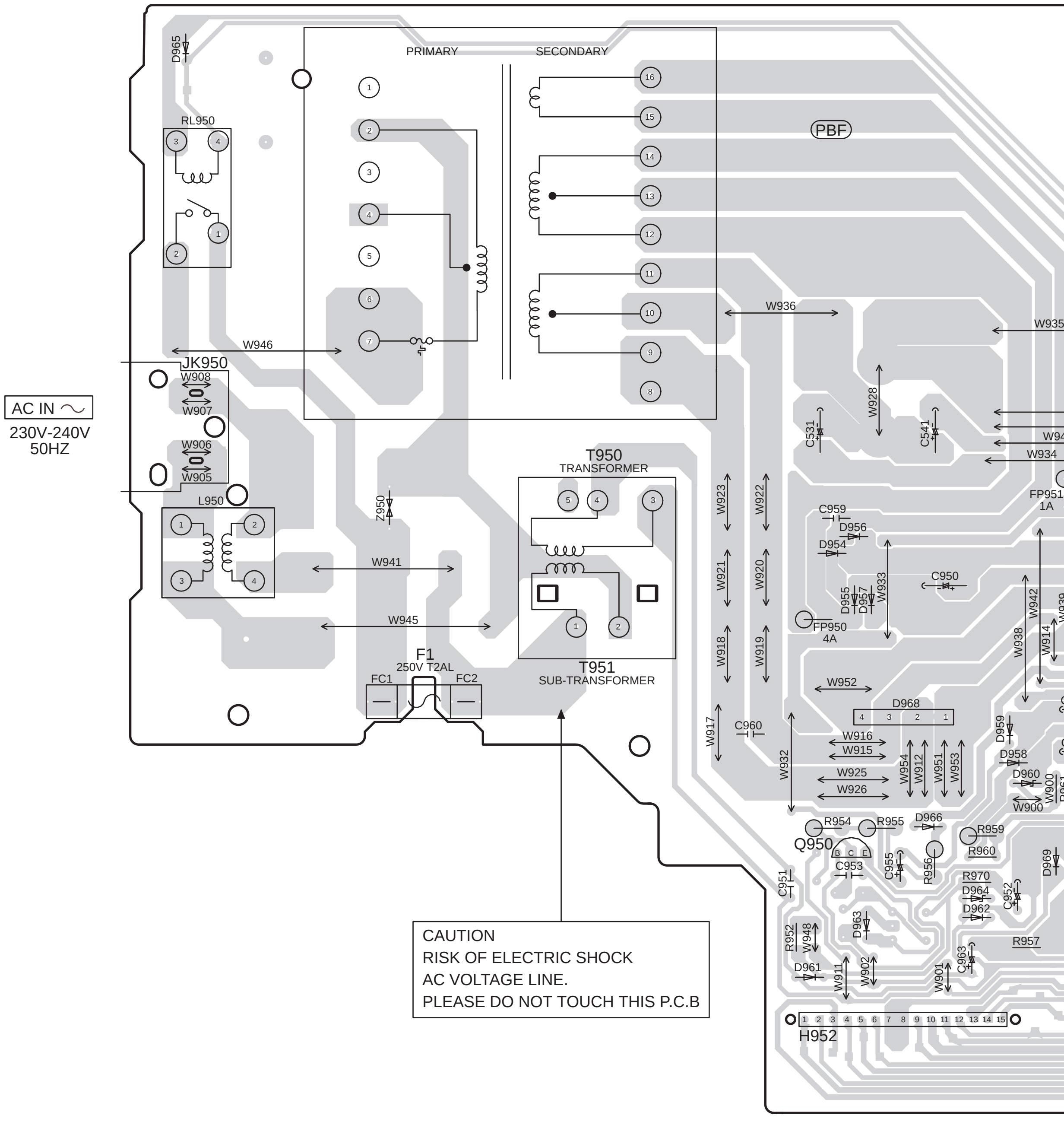
7


H501W501
10 9 8 7 6 5 4 3 2 1
R515
R516
FP533
400
W507
C505
C508
R529
R517
D501
Q507
D504
C513
R511
D509
C512
W500
R524
B C E
W501
R510
R512
C530
W506
R521
R518
PBF
B C E
Q505
R520
R519
C507
R527
R530
Q506
C510
R526
W508
R525
W949
B C E
W502
D510
W503
C511
C509
R522
C506
C504
W505
R528
R523
R513
R514
B C E
B C E
B C E
B C E
Q504
Q503
Q502
Q501

8

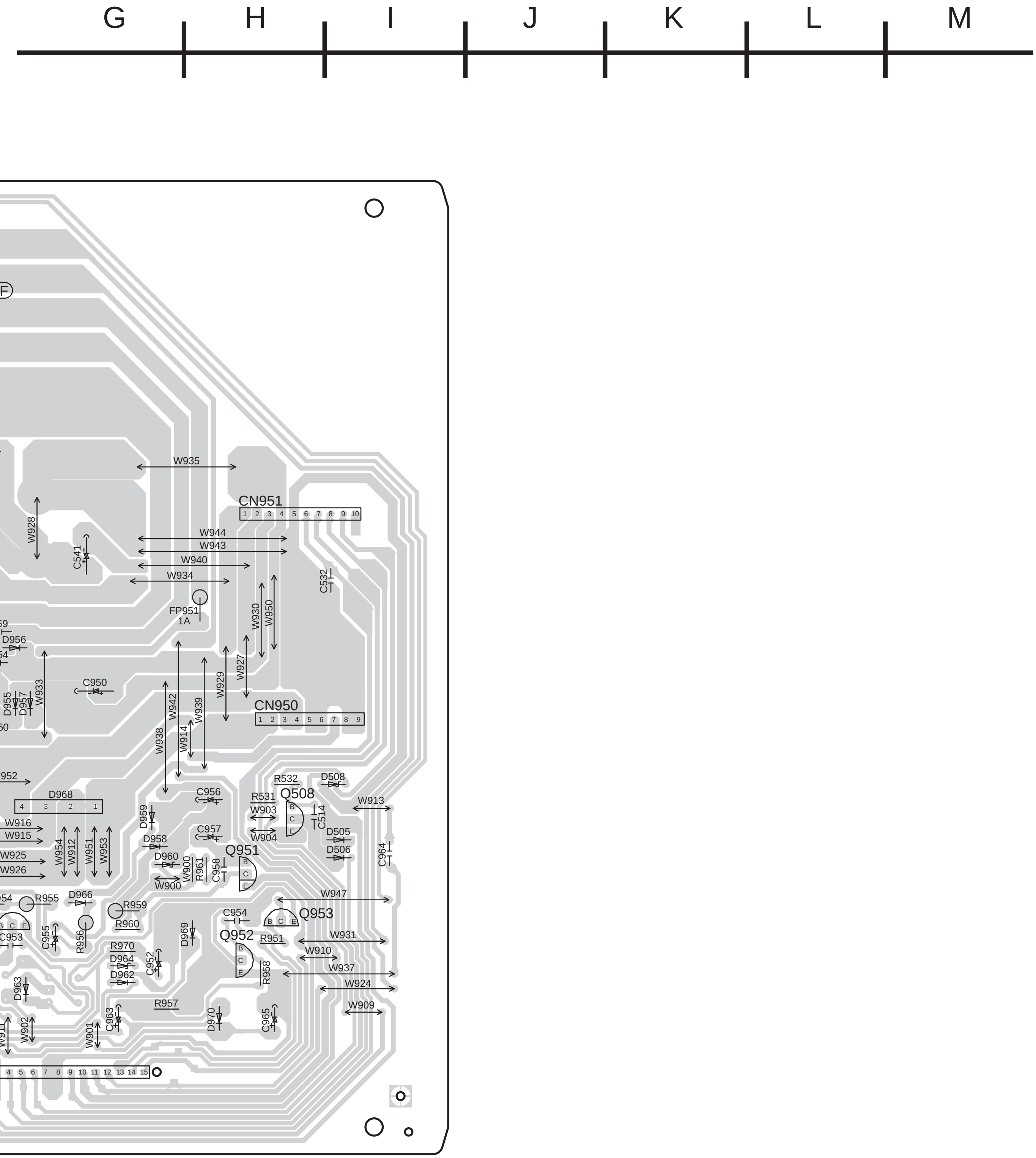
9

E TRANSFORMER P.C.B (REPX0429D)



D965
PRIMARY
SECONDARY
RL950
PBF
W946
JK950
W908
W907
W906
W905
AC IN
230V-240V
50HZ
L950
Z950
W941
W945
T950
TRANSFORMER
T951
SUB-TRANSFORMER
F1
250V T2AL
FC1
FC2
W936
W935
W928
C531
C541
W934
FP951
1A
W923
W922
W921
W920
W918
W919
W917
C959
D956
D954
D955
D957
W933
C950
FP950
4A
W942
W938
W914
W952
D968
C960
W916
W915
W925
W926
W932
W954
W912
W951
W953
D959
D958
D960
W900
R954
R955
D966
R959
Q950
B C E
C953
C955
R956
R960
C951
R970
D964
D962
C952
D969
R952
W948
D963
R957
D961
W911
W902
W901
C963
H952

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

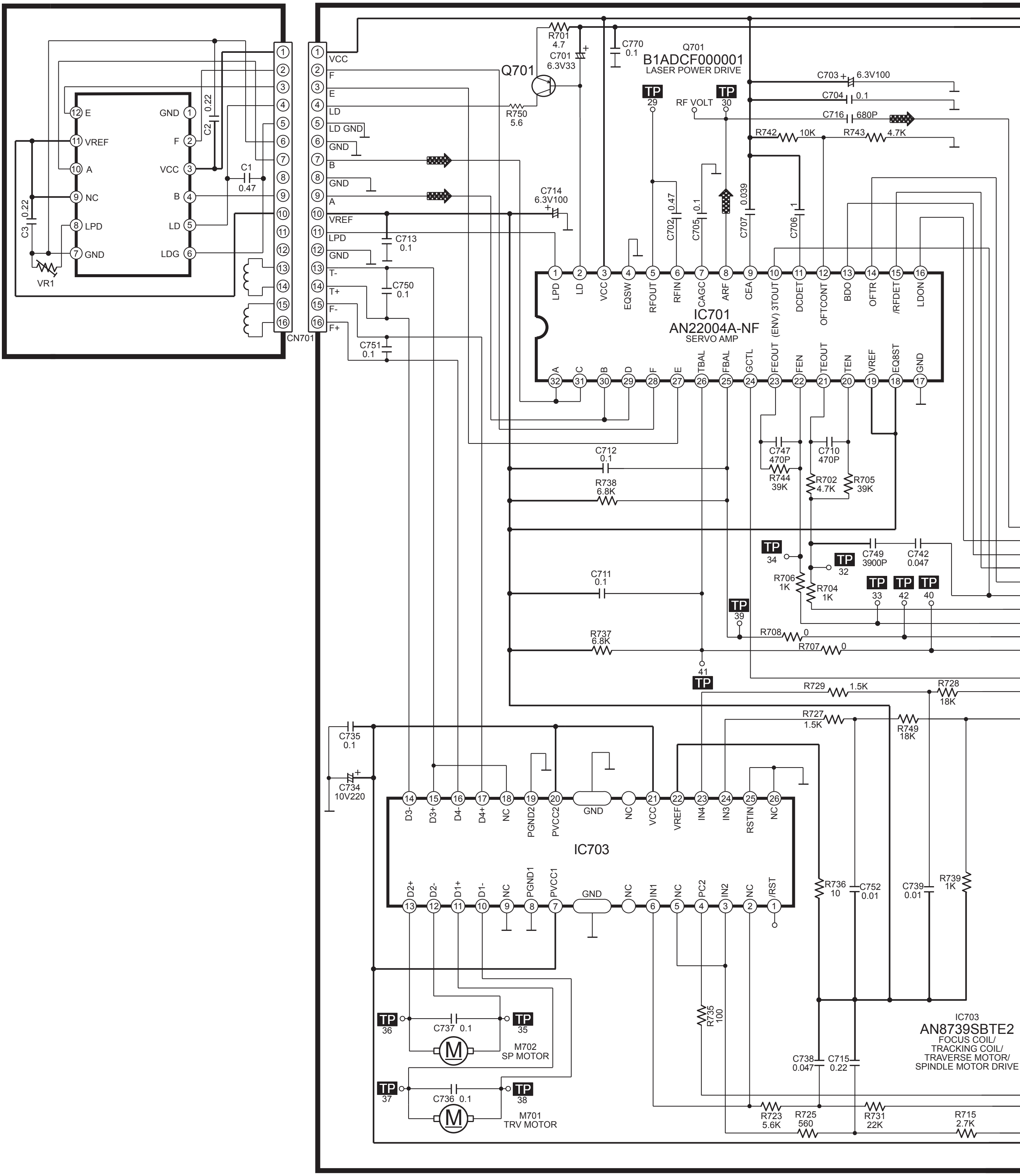

G
H
I
J
K
L
M
F
W935
CN951
1 2 3 4 5 6 7 8 9 10
W928
C541
W944
W943
W940
W934
C532
FP951
1A
W930
W950
D956
W927
W929
C950
W933
D955
D957
W942
W939
CN950
1 2 3 4 5 6 7 8 9
W938
W914
952
D968
4 3 2 1
R532
D508
C956
R531
Q508
W913
W903
B C E
C514
W904
D505
D506
C964
W916
W915
W925
W926
W954
W912
W951
W953
D959
D958
C957
Q951
D960
W900
R961
C958
W947
R955
D966
R959
R960
C954
Q953
D969
Q952
R951
W931
C953
C955
R956
R970
D964
D962
C952
W910
R958
W937
W924
D963
R957
W909
D970
C965
W902
W911
W901
C963
4 5 6 7 8 9 10 11 12 13 14 15

SCHEMATIC DIAGRAM - 1

—— : +B SIGNAL LINE
▨ : CD-DA SIGNAL LINE

OPTICAL PICKUP CIRCUIT

A CD SERVO CIRCUIT

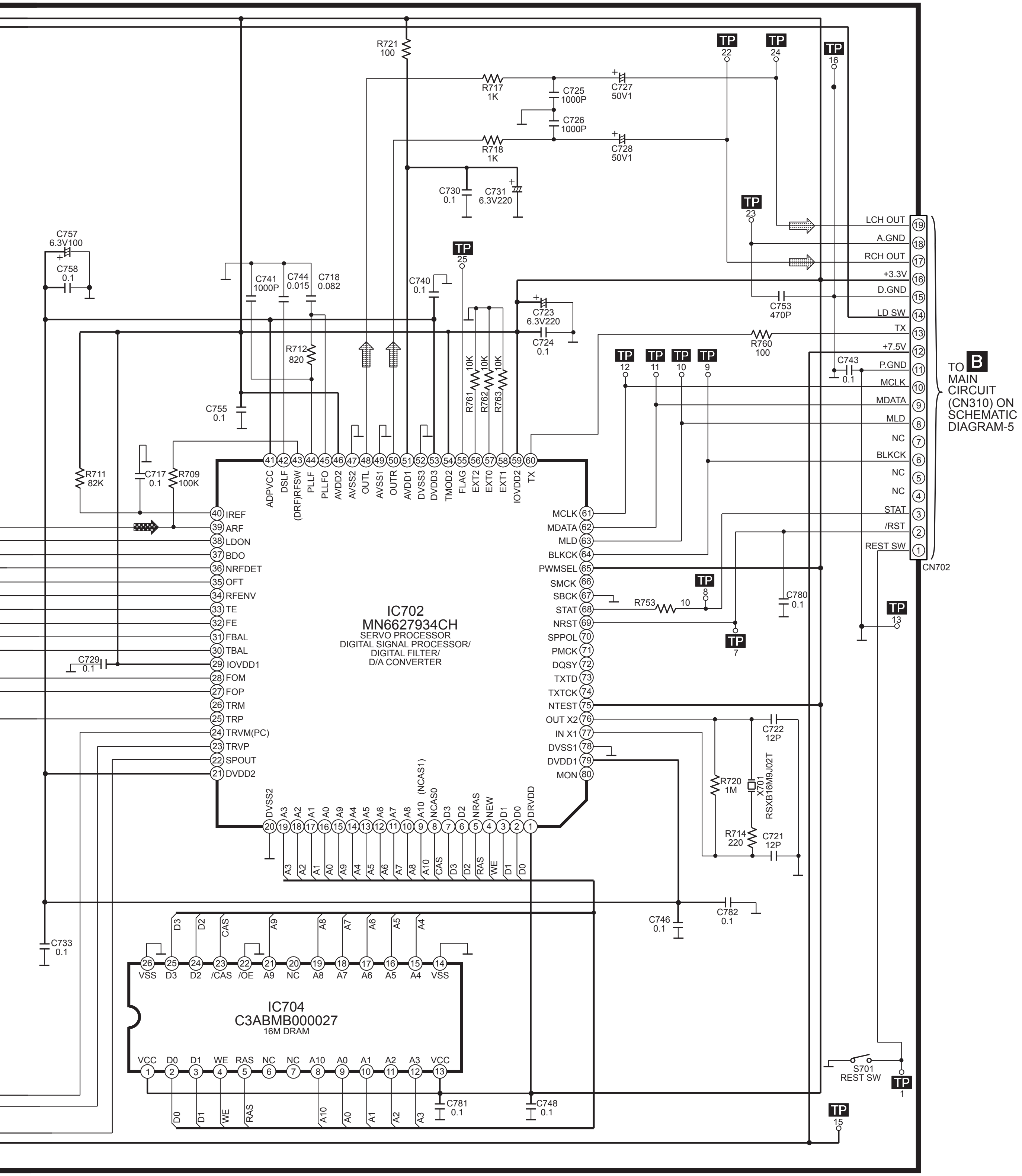


E
GND
VREF
F
A
VCC
NC
B
LPD
LD
GND
LDG
C2 0.22
C1 0.47
C3 0.22
VR1
CN701
VCC
F
E
LD
LD GND
GND
B
GND
A
VREF
LPD
GND
T-
T+
F-
F+
R701 4.7
C701 6.3V33
C770 0.1
Q701
B1ADCF000001
LASER POWER DRIVE
R750 5.6
C714 6.3V100
C713 0.1
C750 0.1
C751 0.1
TP 29
RF VOLT
TP 30
C703 6.3V100
C704 0.1
C716 680P
R742 10K
R743 4.7K
C702 0.47
C705 0.1
C707 0.039
C706 1
LPD
LD
VCC
EQSW
RFOUT
RFIN
CAGC
ARF
CEA
(ENV) 3TOUT
DCDET
OFTCONT
BDO
OFTR
/RFDET
LDON
IC701
AN22004A-NF
SERVO AMP
A
C
B
D
F
E
TBAL
FBAL
GCTL
FEOUT
FEN
TEOUT
TEN
VREF
EQ8ST
GND
C712 0.1
R738 6.8K
C747 470P
C710 470P
R744 39K
R702 4.7K
R705 39K
TP 34
TP 32
C749 3900P
C742 0.047
R706 1K
R704 1K
TP 33
TP 42
TP 40
C711 0.1
TP 39
R708 0
R707 0
R737 6.8K
TP 41
R729 1.5K
R728 18K
R727 1.5K
R749 18K
C735 0.1
C734 10V220
D3-
D3+
D4-
D4+
NC
PGND2
PVCC2
GND
NC
VCC
VREF
IN4
IN3
RSTIN
NC
IC703
D2+
D2-
D1+
D1-
NC
PGND1
PVCC1
GND
NC
IN1
NC
PC2
IN2
NC
/RST
R736 10
C752 0.01
C739 0.01
R739 1K
TP 36
C737 0.1
TP 35
M
M702
SP MOTOR
TP 37
C736 0.1
TP 38
M
M701
TRV MOTOR
R735 100
C738 0.047
C715 0.22
IC703
AN8739SBTE2
FOCUS COIL/
TRACKING COIL/
TRAVERSE MOTOR/
SPINDLE MOTOR DRIVE
R723 5.6K
R725 560
R731 22K
R715 2.7K

SCHEMATIC DIAGRAM - 2

— : +B SIGNAL LINE ⇨ : CD-DA SIGNAL LINE ⇨ : CD SIGNAL LINE

A CD SERVO CIRCUIT

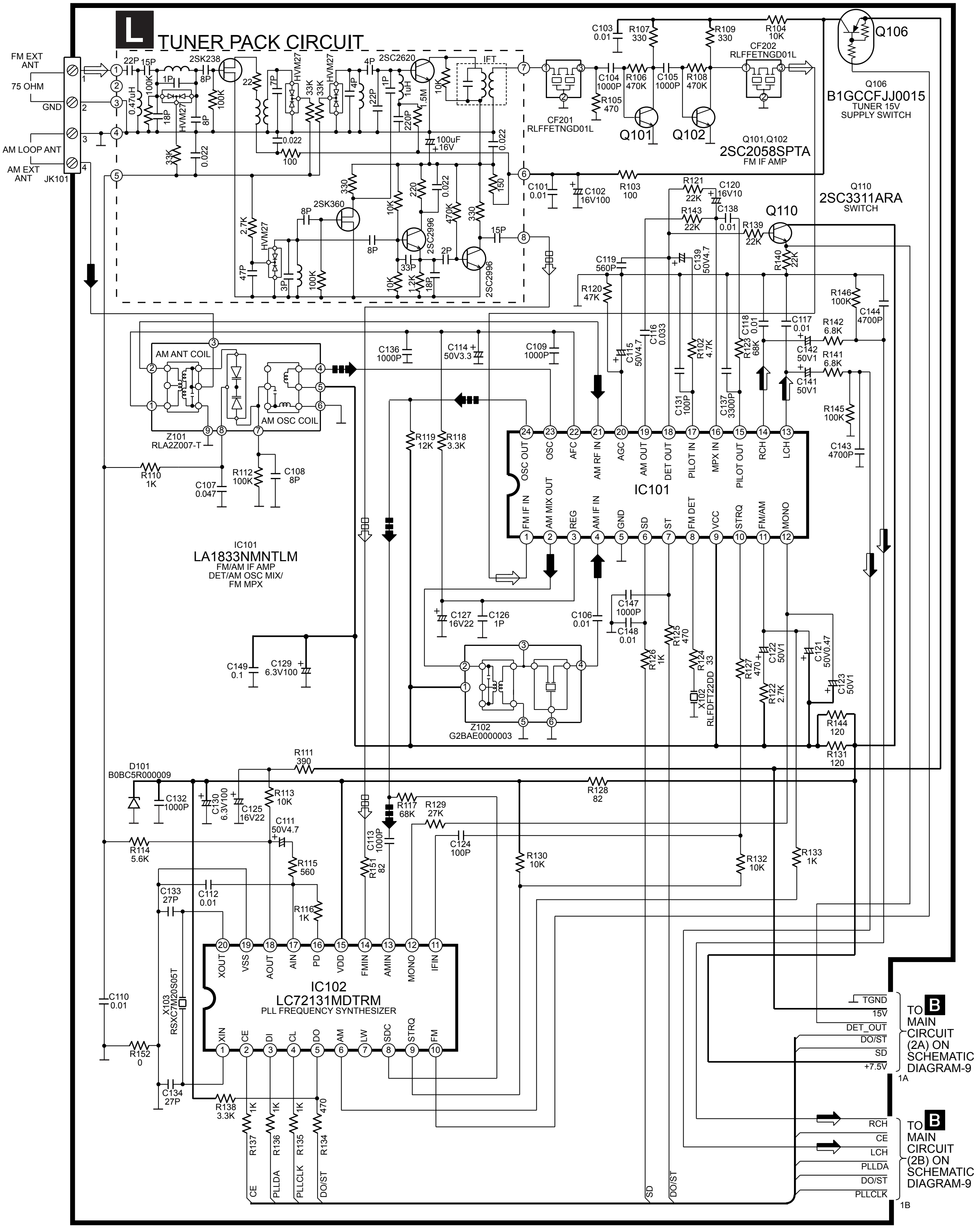


R721
100
R717
1K
C725
1000P
C727
50V1
C726
1000P
R718
1K
C728
50V1
C730
0.1
C731
6.3V220
TP 22
TP 24
TP 16
TP 23
TP 25
C757
6.3V100
C758
0.1
C741
1000P
C744
0.015
C718
0.082
C740
0.1
C723
6.3V220
C724
0.1
R712
820
C755
0.1
R761 10K
R762 10K
R763 10K
R760
100
C753
470P
C743
0.1
TP 12
TP 11
TP 10
TP 9
R711
82K
C717
0.1
R709
100K
C729
0.1
IC702
MN6627934CH
SERVO PROCESSOR
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER/
D/A CONVERTER
41 ADPVCC
42 DSLF
43 (DRF)RFSW
44 PLLF
45 PLLFO
46 AVDD2
47 AVSS2
48 OUTL
49 AVSS1
50 OUTR
51 AVDD1
52 DVSS3
53 DVDD3
54 TMOD2
55 FLAG
56 EXT2
57 EXT0
58 EXT1
59 IOVDD2
60 TX
40 IREF
39 ARF
38 LDON
37 BDO
36 NRFDET
35 OFT
34 RFENV
33 TE
32 FE
31 FBAL
30 TBAL
29 IOVDD1
28 FOM
27 FOP
26 TRM
25 TRP
24 TRVM(PC)
23 TRVP
22 SPOUT
21 DVDD2
MCLK 61
MDATA 62
MLD 63
BLKCK 64
PWMSEL 65
SMCK 66
SBCK 67
STAT 68
NRST 69
SPPOL 70
PMCK 71
DQSY 72
TXTD 73
TXTCK 74
NTEST 75
OUT X2 76
IN X1 77
DVSS1 78
DVDD1 79
MON 80
20 DVSS2
19 A3
18 A2
17 A1
16 A0
15 A9
14 A4
13 A5
12 A6
11 A7
10 A8
9 A10 (NCAS1)
8 NCAS0
7 D3
6 D2
5 NRAS
4 NEW
3 D1
2 D0
1 DRVDD
A3 A2 A1 A0 A9 A4 A5 A6 A7 A8 A10 CAS D3 D2 RAS WE D1 D0
TP 8
R753
10
TP 7
C780
0.1
TP 13
C722
12P
R720
1M
X701
RSXB16M9J02T
R714
220
C721
12P
C746
0.1
C782
0.1
C733
0.1
LCH OUT 19
A.GND 18
RCH OUT 17
+3.3V 16
D.GND 15
LD SW 14
TX 13
+7.5V 12
P.GND 11
MCLK 10
MDATA 9
MLD 8
NC 7
BLKCK 6
NC 5
NC 4
STAT 3
/RST 2
REST SW 1
CN702
TO B MAIN CIRCUIT (CN310) ON SCHEMATIC DIAGRAM-5
D3 D2 CAS A9 A8 A7 A6 A5 A4
26 VSS
25 D3
24 D2
23 /CAS
22 /OE
21 A9
20 NC
19 A8
18 A7
17 A6
16 A5
15 A4
14 VSS
IC704
C3ABMB000027
16M DRAM
1 VCC
2 D0
3 D1
4 WE
5 RAS
6 NC
7 NC
8 A10
9 A0
10 A1
11 A2
12 A3
13 VCC
D0 D1 WE RAS A10 A0 A1 A2 A3
C781
0.1
C748
0.1
S701
REST SW
TP 1
TP 15

SCHEMATIC DIAGRAM - 3

- : +B SIGNAL LINE
- : FM/AM SIGNAL LINE
- : FM SIGNAL LINE
- : FM OSC SIGNAL LINE
- : AM SIGNAL LINE
- : AM OSC SIGNAL LINE

B TUNER/MAIN CIRCUIT


L TUNER PACK CIRCUIT
FM EXT ANT
75 OHM
GND
AM LOOP ANT
AM EXT ANT
JK101
22P
15P
100K
1P
2SK238
8P
0.47uH
18P
HVM27
8P
100K
22
7P
HVM27
33K
33K
HVM27
4P
22P
4P
2SC2620
1P
1uH
1.5M
220P
10K
IFT
100uF 16V
0.022
0.022
100
33K
0.022
330
2SK360
8P
8P
10K
220
0.022
470K
330
150
2SC2996
2P
33P
10K
1.2K
18P
2SC2996
15P
2.7K
HVM27
47P
3P
100K
C103 0.01
R107 330
R109 330
R104 10K
Q106
CF201 RLFFETNGD01L
C104 1000P
R106 470K
C105 1000P
R108 470K
CF202 RLFFETNGD01L
R105 470
Q101
Q102
Q106 B1GCCFJJ0015 TUNER 15V SUPPLY SWITCH
Q101,Q102 2SC2058SPTA FM IF AMP
C101 0.01
C102 16V100
R103 100
R121 22K
C120 16V10
Q110 2SC3311ARA SWITCH
R143 22K
C138 0.01
R139 22K
Q110
C119 560P
C139 50V4.7
R140 22K
R120 47K
R146 100K
C144 4700P
C118 0.01
C117 0.01
R142 6.8K
C116 0.033
C115 50V4.7
R102 4.7K
R123 68K
C142 50V1
R141 6.8K
C141 50V1
C131 100P
C137 3300P
R145 100K
C143 4700P
AM ANT COIL
AM OSC COIL
Z101 RLA2Z007-T
C136 1000P
C114 50V3.3
C109 1000P
R119 12K
R118 3.3K
R110 1K
R112 100K
C108 8P
C107 0.047
24 OSC OUT
23 OSC
22 AFC
21 AM RF IN
20 AGC
19 AM OUT
18 DET OUT
17 PILOT IN
16 MPX IN
15 PILOT OUT
14 RCH
13 LCH
IC101
1 FM IF IN
2 AM MIX OUT
3 REG
4 AM IF IN
5 GND
6 SD
7 ST
8 FM DET
9 VCC
10 STRQ
11 FM/AM
12 MONO
IC101 LA1833NMNTLM FM/AM IF AMP DET/AM OSC MIX/ FM MPX
C127 16V22
C126 1P
C106 0.01
C147 1000P
C148 0.01
R125 470
C149 0.1
C129 6.3V100
R126 1K
R124 33
X102 RLFDFT22DD
R127 470
C122 50V1
C121 50V0.47
R122 2.7K
C123 50V1
Z102 G2BAE0000003
R144 120
R131 120
D101 B0BC5R000009
R111 390
R128 82
C132 1000P
C130 6.3V100
C125 16V22
R113 10K
R117 68K
R129 27K
C111 50V4.7
R114 5.6K
R115 560
C113 1000P
R151 82
C124 100P
R130 10K
R132 10K
R133 1K
C133 27P
C112 0.01
R116 1K
20 XOUT
19 VSS
18 AOUT
17 AIN
16 PD
15 VDD
14 FMIN
13 AMIN
12 MONO
11 IFIN
IC102 LC72131MDTRM PLL FREQUENCY SYNTHESIZER
1 XIN
2 CE
3 DI
4 CL
5 DO
6 AM
7 LW
8 SDC
9 STRQ
10 FM
C110 0.01
X103 RSXC7M20S05T
R152 0
C134 27P
R138 3.3K
R137 1K
R136 1K
R135 1K
R134 470
CE
PLLDA
PLLCLK
DO/ST
SD
DO/ST
TGND
15V
DET_OUT
DO/ST
SD
+7.5V
TO B MAIN CIRCUIT (2A) ON SCHEMATIC DIAGRAM-9
1A
RCH
CE
LCH
PLLDA
DO/ST
PLLCLK
TO B MAIN CIRCUIT (2B) ON SCHEMATIC DIAGRAM-9
1B

SCHEMATIC DIAGRAM - 4

— : +B SIGNAL LINE

– – : -B SIGNAL LINE

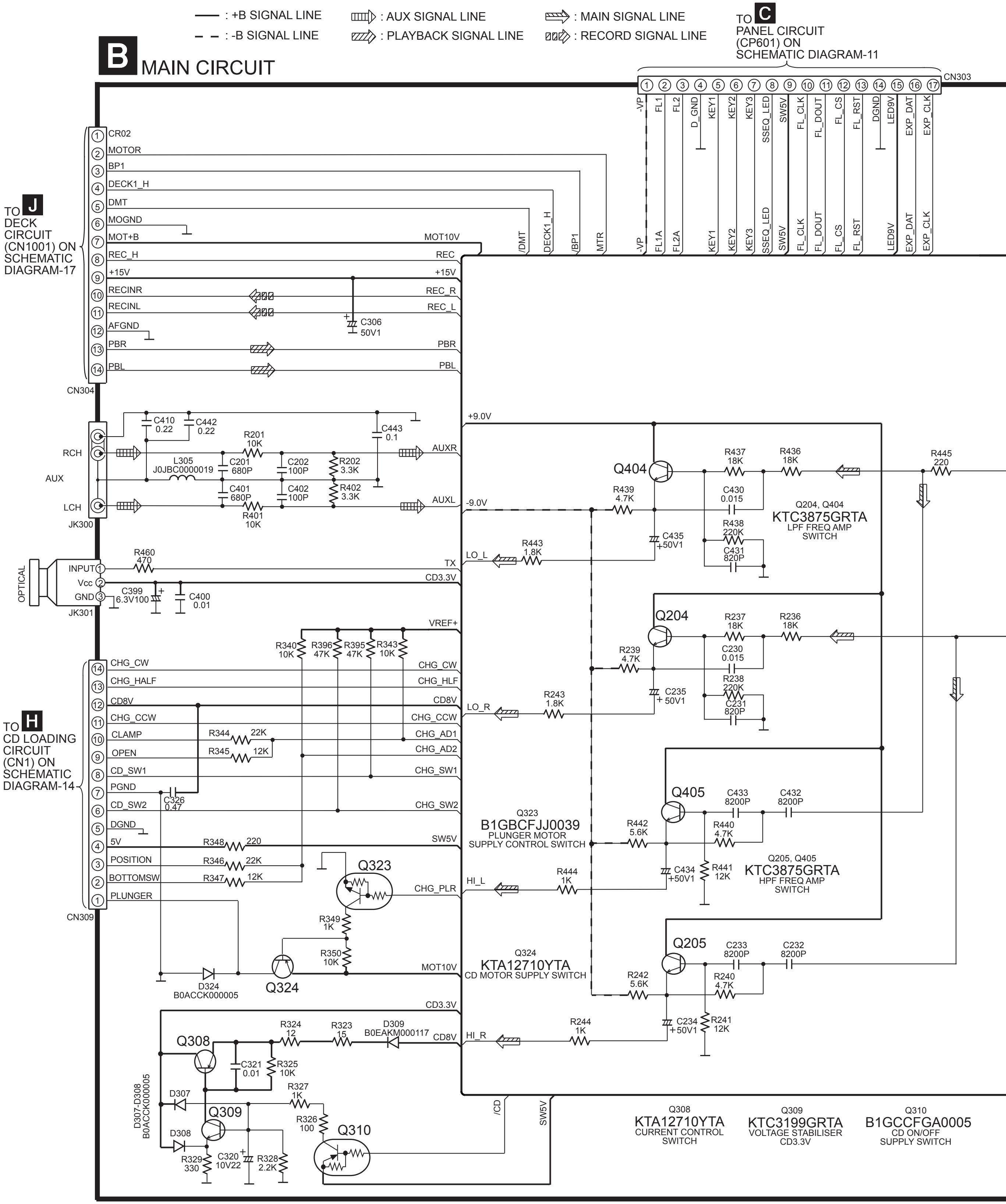
▥⇨ : AUX SIGNAL LINE

▨⇨ : PLAYBACK SIGNAL LINE

⇨ : MAIN SIGNAL LINE

▧⇨ : RECORD SIGNAL LINE

B MAIN CIRCUIT



TO C
PANEL CIRCUIT
(CP601) ON
SCHEMATIC DIAGRAM-11
CN303
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰
-VP
FL1
FL2
D_GND
KEY1
KEY2
KEY3
SSEQ_LED
SW5V
FL_CLK
FL_DOUT
FL_CS
FL_RST
DGND
LED9V
EXP_DAT
EXP_CLK
/DMT
DECK1_H
/BP1
MTR
-VP
FL1A
FL2A
KEY1
KEY2
KEY3
SSEQ_LED
SW5V
FL_CLK
FL_DOUT
FL_CS
FL_RST
LED9V
EXP_DAT
EXP_CLK
TO J
DECK
CIRCUIT
(CN1001) ON
SCHEMATIC
DIAGRAM-17
CN304
① CR02
② MOTOR
③ BP1
④ DECK1_H
⑤ DMT
⑥ MOGND
⑦ MOT+B
⑧ REC_H
⑨ +15V
⑩ RECINR
⑪ RECINL
⑫ AFGND
⑬ PBR
⑭ PBL
MOT10V
REC
+15V
REC_R
REC_L
C306
50V1
PBR
PBL
AUX
RCH
LCH
JK300
C410
0.22
C442
0.22
C443
0.1
R201
10K
L305
J0JBC0000019
C201
680P
C202
100P
R202
3.3K
C401
680P
C402
100P
R402
3.3K
R401
10K
AUXR
AUXL
+9.0V
-9.0V
OPTICAL
INPUT ①
Vcc ②
GND ③
JK301
R460
470
C399
6.3V100
C400
0.01
TX
CD3.3V
LO_L
R443
1.8K
LO_R
R243
1.8K
Q404
R437
18K
R436
18K
R445
220
R439
4.7K
C430
0.015
R438
220K
C431
820P
C435
50V1
Q204, Q404
KTC3875GRTA
LPF FREQ AMP
SWITCH
Q204
R237
18K
R236
18K
R239
4.7K
C230
0.015
R238
220K
C231
820P
C235
50V1
VREF+
R340
10K
R396
47K
R395
47K
R343
10K
TO H
CD LOADING
CIRCUIT
(CN1) ON
SCHEMATIC
DIAGRAM-14
CN309
⑭ CHG_CW
⑬ CHG_HALF
⑫ CD8V
⑪ CHG_CCW
⑩ CLAMP
⑨ OPEN
⑧ CD_SW1
⑦ PGND
⑥ CD_SW2
⑤ DGND
④ 5V
③ POSITION
② BOTTOMSW
① PLUNGER
CHG_CW
CHG_HLF
CD8V
CHG_CCW
CHG_AD1
CHG_AD2
CHG_SW1
CHG_SW2
SW5V
CHG_PLR
R344 22K
R345 12K
C326
0.47
R348 220
R346 22K
R347 12K
Q323
R349
1K
R350
10K
Q324
D324
B0ACCK000005
MOT10V
Q323
B1GBCFJJ0039
PLUNGER MOTOR
SUPPLY CONTROL SWITCH
Q324
KTA12710YTA
CD MOTOR SUPPLY SWITCH
Q405
C433
8200P
C432
8200P
R442
5.6K
R440
4.7K
C434
50V1
R441
12K
Q205, Q405
KTC3875GRTA
HPF FREQ AMP
SWITCH
HI_L
R444
1K
Q205
C233
8200P
C232
8200P
R242
5.6K
R240
4.7K
C234
50V1
R241
12K
HI_R
R244
1K
CD3.3V
Q308
R324
12
R323
15
D309
B0EAKM000117
CD8V
C321
0.01
R325
10K
D307-D308
B0ACCK000005
D307
D308
Q309
R327
1K
R326
100
Q310
R329
330
C320
10V22
R328
2.2K
/CD
SW5V
Q308
KTA12710YTA
CURRENT CONTROL
SWITCH
Q309
KTC3199GRTA
VOLTAGE STABILISER
CD3.3V
Q310
B1GCCFGA0005
CD ON/OFF
SUPPLY SWITCH

SCHEMATIC DIAGRAM - 5

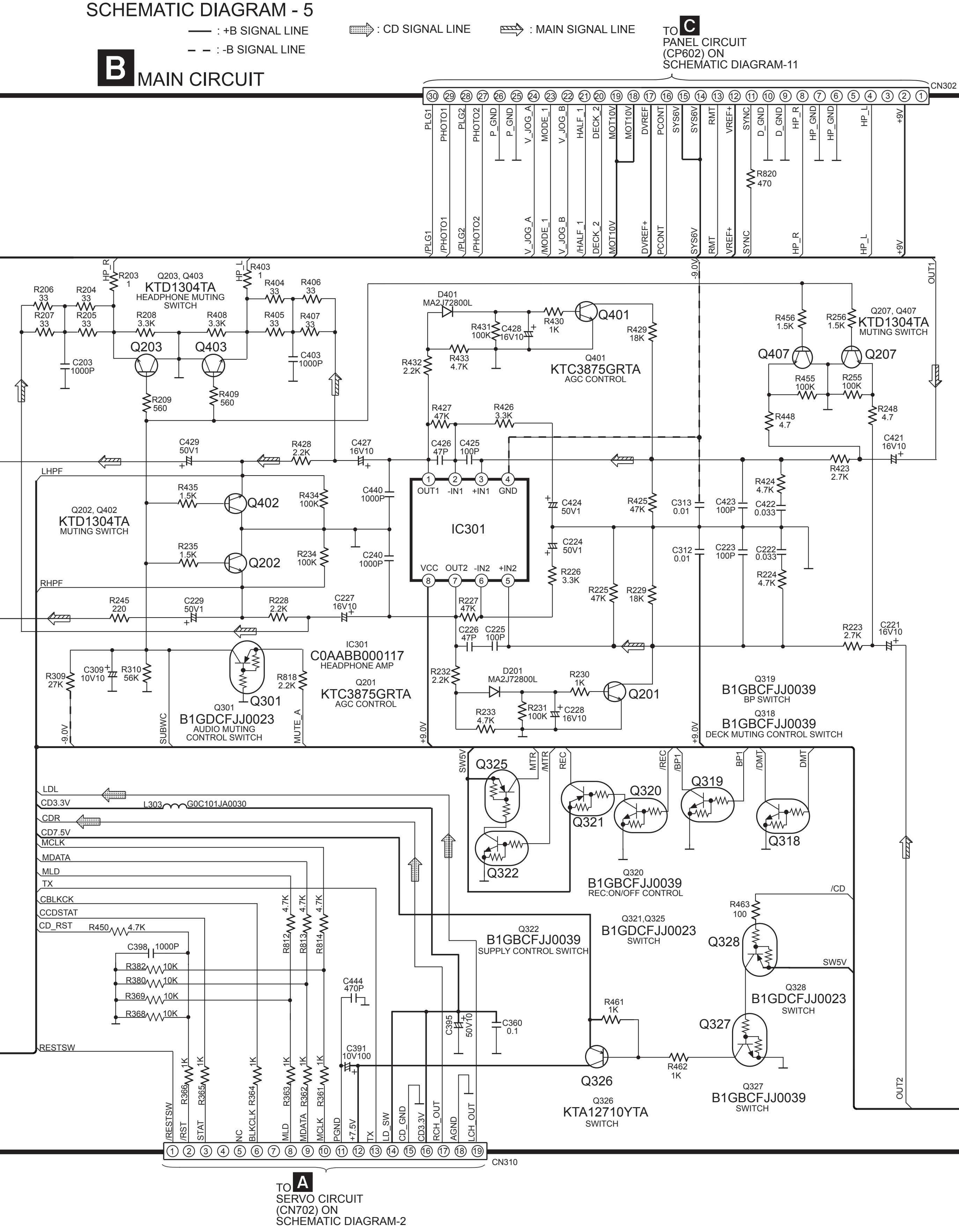
: +B SIGNAL LINE

: -B SIGNAL LINE

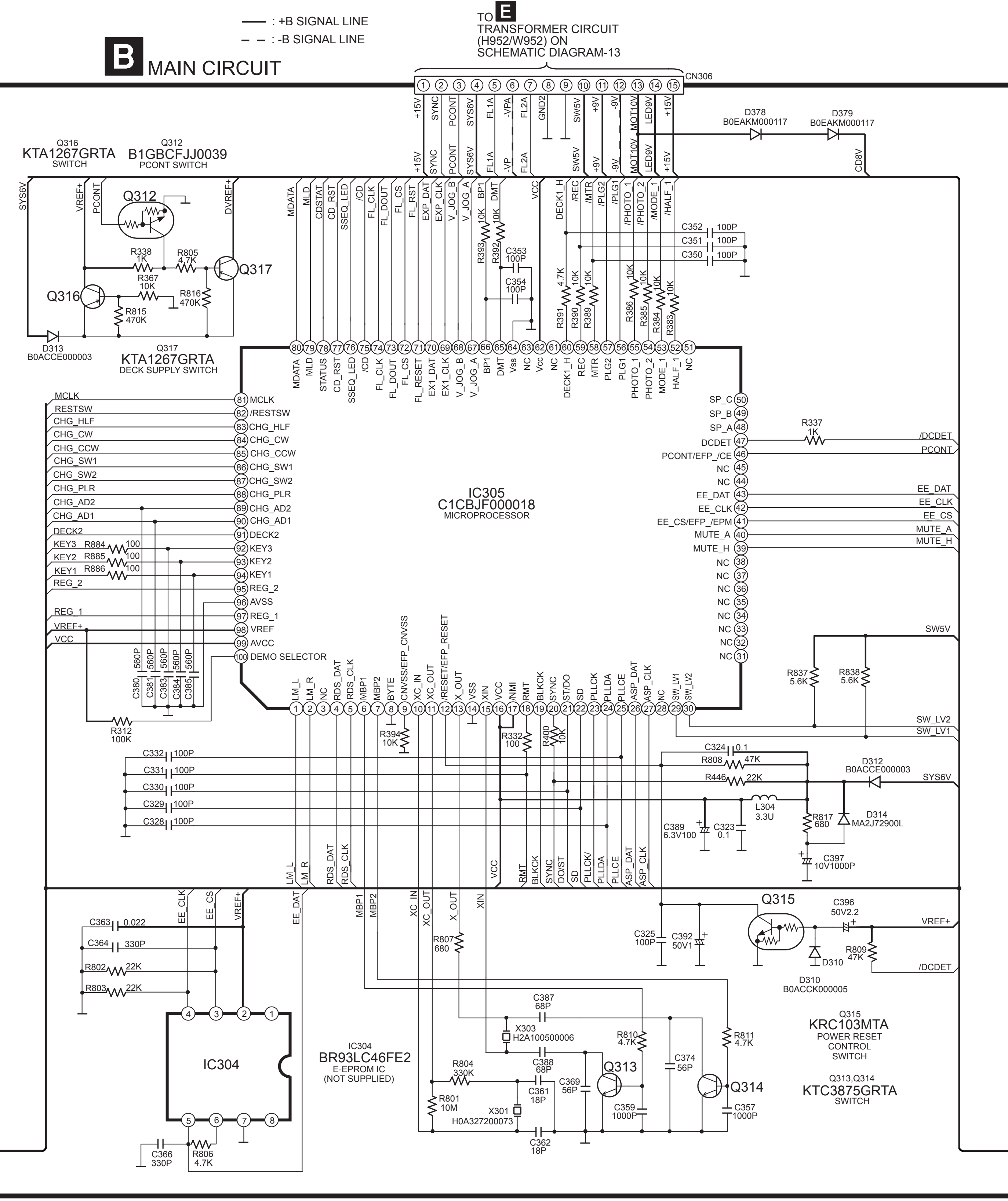
: CD SIGNAL LINE

: MAIN SIGNAL LINE

B MAIN CIRCUIT


TO C
PANEL CIRCUIT
(CP602) ON
SCHEMATIC DIAGRAM-11
CN302
PLG1
PHOTO1
PLG2
PHOTO2
P_GND
P_GND
V_JOG_A
MODE_1
V_JOG_B
HALF_1
DECK_2
MOT10V
MOT10V
DVREF
PCONT
SYS6V
SYS6V
RMT
VREF+
SYNC
D_GND
D_GND
HP_R
HP_GND
HP_GND
HP_L
+9V
R820
470
/PLG1
/PHOTO1
/PLG2
/PHOTO2
V_JOG_A
/MODE_1
V_JOG_B
/HALF_1
DECK_2
MOT10V
DVREF+
PCONT
SYS6V
RMT
VREF+
SYNC
HP_R
HP_L
+9V
-9.0V
OUT1
HP_R
R203
1
HP_L
R403
1
Q203, Q403
KTD1304TA
HEADPHONE MUTING
SWITCH
R206
33
R204
33
R207
33
R205
33
R208
3.3K
R408
3.3K
R404
33
R406
33
R405
33
R407
33
Q203
Q403
C203
1000P
C403
1000P
R209
560
R409
560
D401
MA2J72800L
Q401
R431
100K
C428
16V10
R430
1K
R429
18K
R433
4.7K
R432
2.2K
Q401
KTC3875GRTA
AGC CONTROL
R456
1.5K
R256
1.5K
Q207, Q407
KTD1304TA
MUTING SWITCH
Q407
Q207
R455
100K
R255
100K
R448
4.7
R248
4.7
C421
16V10
R427
47K
R426
3.3K
C429
50V1
R428
2.2K
C427
16V10
C426
47P
C425
100P
R423
2.7K
LHPF
R435
1.5K
Q402
R434
100K
C440
1000P
OUT1
-IN1
+IN1
GND
IC301
C424
50V1
R425
47K
C313
0.01
C423
100P
R424
4.7K
C422
0.033
Q202, Q402
KTD1304TA
MUTING SWITCH
R235
1.5K
Q202
R234
100K
C240
1000P
VCC
OUT2
-IN2
+IN2
C224
50V1
R226
3.3K
C312
0.01
C223
100P
C222
0.033
R224
4.7K
RHPF
R245
220
C229
50V1
R228
2.2K
C227
16V10
R227
47K
R225
47K
R229
18K
C226
47P
C225
100P
R223
2.7K
C221
16V10
IC301
C0AABB000117
HEADPHONE AMP
R309
27K
C309
10V10
R310
56K
R818
2.2K
Q301
Q301
B1GDCFJJ0023
AUDIO MUTING
CONTROL SWITCH
Q201
KTC3875GRTA
AGC CONTROL
R232
2.2K
D201
MA2J72800L
R230
1K
Q201
R233
4.7K
R231
100K
C228
16V10
Q319
B1GBCFJJ0039
BP SWITCH
Q318
B1GBCFJJ0039
DECK MUTING CONTROL SWITCH
-9.0V
SUBWC
MUTE_A
+9.0V
+9.0V
SW5V
Q325
MTR
/MTR
REC
/REC
/BP1
BP1
/DMT
DMT
Q321
Q320
Q319
Q318
Q322
Q320
B1GBCFJJ0039
REC:ON/OFF CONTROL
LDL
CD3.3V
L303
G0C101JA0030
CDR
CD7.5V
MCLK
MDATA
MLD
TX
CBLKCK
CCDSTAT
CD_RST
R450
4.7K
C398
1000P
R382
10K
R380
10K
R369
10K
R368
10K
R812
4.7K
R813
4.7K
R814
4.7K
Q322
B1GBCFJJ0039
SUPPLY CONTROL SWITCH
Q321,Q325
B1GDCFJJ0023
SWITCH
/CD
R463
100
Q328
SW5V
Q328
B1GDCFJJ0023
SWITCH
C444
470P
C395
50V10
C360
0.1
R461
1K
Q327
RESTSW
C391
10V100
Q326
R462
1K
Q327
B1GBCFJJ0039
SWITCH
R366
1K
R365
1K
R364
1K
R363
1K
R362
1K
R361
1K
Q326
KTA12710YTA
SWITCH
OUT2
/RESTSW
/RST
STAT
NC
BLKCLK
MLD
MDATA
MCLK
PGND
+7.5V
TX
LD_SW
CD_GND
CD3.3V
RCH_OUT
AGND
LCH_OUT
CN310
TO A
SERVO CIRCUIT
(CN702) ON
SCHEMATIC DIAGRAM-2

SCHEMATIC DIAGRAM - 6

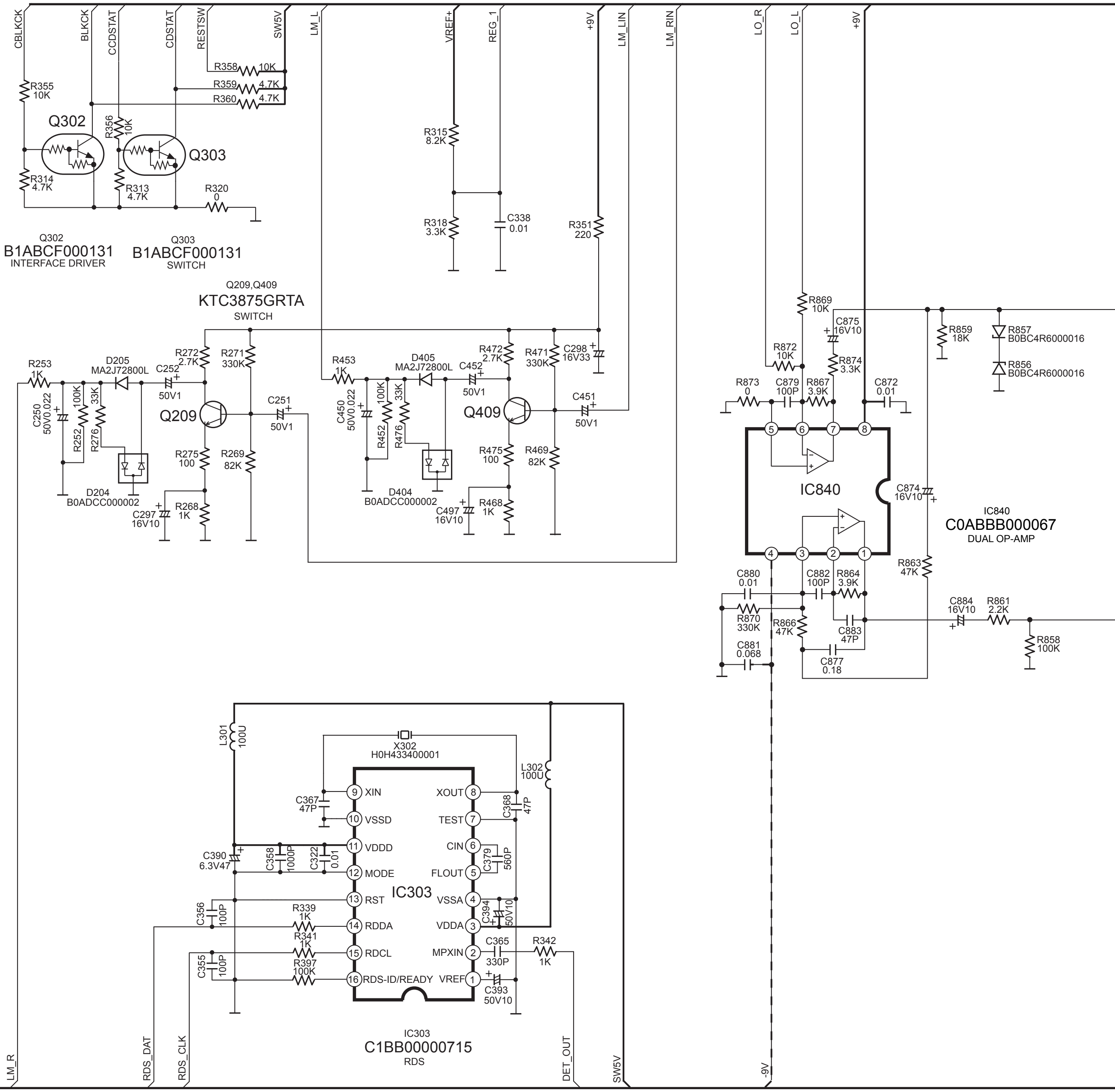


—— : +B SIGNAL LINE
- - : -B SIGNAL LINE
B MAIN CIRCUIT
TO E TRANSFORMER CIRCUIT (H952/W952) ON SCHEMATIC DIAGRAM-13
CN306
+15V
SYNC
PCONT
SYS6V
FL1A
-VPA
FL2A
GND2
SW5V
+9V
-9V
MOT10V
LED9V
+15V
-VP
VCC
D378
B0EAKM000117
D379
B0EAKM000117
CD8V
Q316
KTA1267GRTA
SWITCH
Q312
B1GBCFJJ0039
PCONT SWITCH
SYS6V
VREF+
PCONT
DVREF+
Q312
R338
1K
R805
4.7K
Q317
R367
10K
R816
470K
Q316
R815
470K
D313
B0ACCE000003
Q317
KTA1267GRTA
DECK SUPPLY SWITCH
MDATA
MLD
CDSTAT
CD_RST
SSEQ_LED
/CD
FL_CLK
FL_DOUT
FL_CS
FL_RST
EXP_DAT
EXP_CLK
V_JOG_B
V_JOG_A
BP1
DMT
DECK1_H
/REC
/MTR
/PLG2
/PLG1
/PHOTO_1
/PHOTO_2
/MODE_1
/HALF_1
R393 10K
R392 10K
C353 100P
C354 100P
C352 100P
C351 100P
C350 100P
R391 4.7K
R390 10K
R389 10K
R386 10K
R385 10K
R384 10K
R383 10K
80 MDATA
79 MLD
78 STATUS
77 CD_RST
76 SSEQ_LED
75 /CD
74 FL_CLK
73 FL_DOUT
72 FL_CS
71 FL_RESET
70 EX1_DAT
69 EX1_CLK
68 V_JOG_B
67 V_JOG_A
66 BP1
65 DMT
64 Vss
63 NC
62 Vcc
61 NC
60 DECK1_H
59 REC
58 MTR
57 PLG2
56 PLG1
55 PHOTO_1
54 PHOTO_2
53 MODE_1
52 HALF_1
51 NC
MCLK
RESTSW
CHG_HLF
CHG_CW
CHG_CCW
CHG_SW1
CHG_SW2
CHG_PLR
CHG_AD2
CHG_AD1
DECK2
KEY3 R884 100
KEY2 R885 100
KEY1 R886 100
REG_2
REG_1
VREF+
VCC
81 MCLK
82 /RESTSW
83 CHG_HLF
84 CHG_CW
85 CHG_CCW
86 CHG_SW1
87 CHG_SW2
88 CHG_PLR
89 CHG_AD2
90 CHG_AD1
91 DECK2
92 KEY3
93 KEY2
94 KEY1
95 REG_2
96 AVSS
97 REG_1
98 VREF
99 AVCC
100 DEMO SELECTOR
C380 560P
C381 560P
C383 560P
C384 560P
C385 560P
R312
100K
IC305
C1CBJF000018
MICROPROCESSOR
SP_C 50
SP_B 49
SP_A 48
DCDET 47
PCONT/EFP_/CE 46
NC 45
NC 44
EE_DAT 43
EE_CLK 42
EE_CS/EFP_/EPM 41
MUTE_A 40
MUTE_H 39
NC 38
NC 37
NC 36
NC 35
NC 34
NC 33
NC 32
NC 31
R337
1K
/DCDET
PCONT
EE_DAT
EE_CLK
EE_CS
MUTE_A
MUTE_H
SW5V
R837
5.6K
R838
5.6K
SW_LV2
SW_LV1
1 LM_L
2 LM_R
3 NC
4 RDS_DAT
5 RDS_CLK
6 MBP1
7 MBP2
8 BYTE
9 CNVSS/EFP_CNVSS
10 XC_IN
11 XC_OUT
12 /RESET/EFP_RESET
13 X_OUT
14 VSS
15 XIN
16 VCC
17 /NMI
18 RMT
19 BLKCK
20 SYNC
21 ST/DO
22 SD
23 PLLCK
24 PLLDA
25 PLLCE
26 ASP_DAT
27 ASP_CLK
28 NC
29 SW_LV1
30 SW_LV2
R394
10K
R332
100
R400
10K
C332 100P
C331 100P
C330 100P
C329 100P
C328 100P
C324 0.1
R808 47K
R446 22K
D312
B0ACCE000003
SYS6V
L304
3.3U
R817
680
D314
MA2J72900L
C389
6.3V100
C323
0.1
C397
10V1000P
LM_L
LM_R
RDS_DAT
RDS_CLK
VCC
RMT
BLKCK
SYNC
DO/ST
SD
PLLCK/
PLLDA
PLLCE
ASP_DAT
ASP_CLK
EE_CLK
EE_CS
VREF+
EE_DAT
MBP1
MBP2
XC_IN
XC_OUT
X_OUT
XIN
Q315
C396
50V2.2
VREF+
C325
100P
C392
50V1
R809
47K
D310
/DCDET
D310
B0ACCK000005
C363 0.022
C364 330P
R802 22K
R803 22K
R807
680
C387
68P
X303
H2A100500006
C388
68P
R810
4.7K
C374
56P
R811
4.7K
Q313
Q314
R804
330K
C361
18P
C369
56P
C359
1000P
C357
1000P
R801
10M
X301
H0A327200073
C362
18P
IC304
4
3
2
1
5
6
7
8
C366
330P
R806
4.7K
IC304
BR93LC46FE2
E-EPROM IC
(NOT SUPPLIED)
Q315
KRC103MTA
POWER RESET
CONTROL
SWITCH
Q313,Q314
KTC3875GRTA
SWITCH

SCHEMATIC DIAGRAM - 7

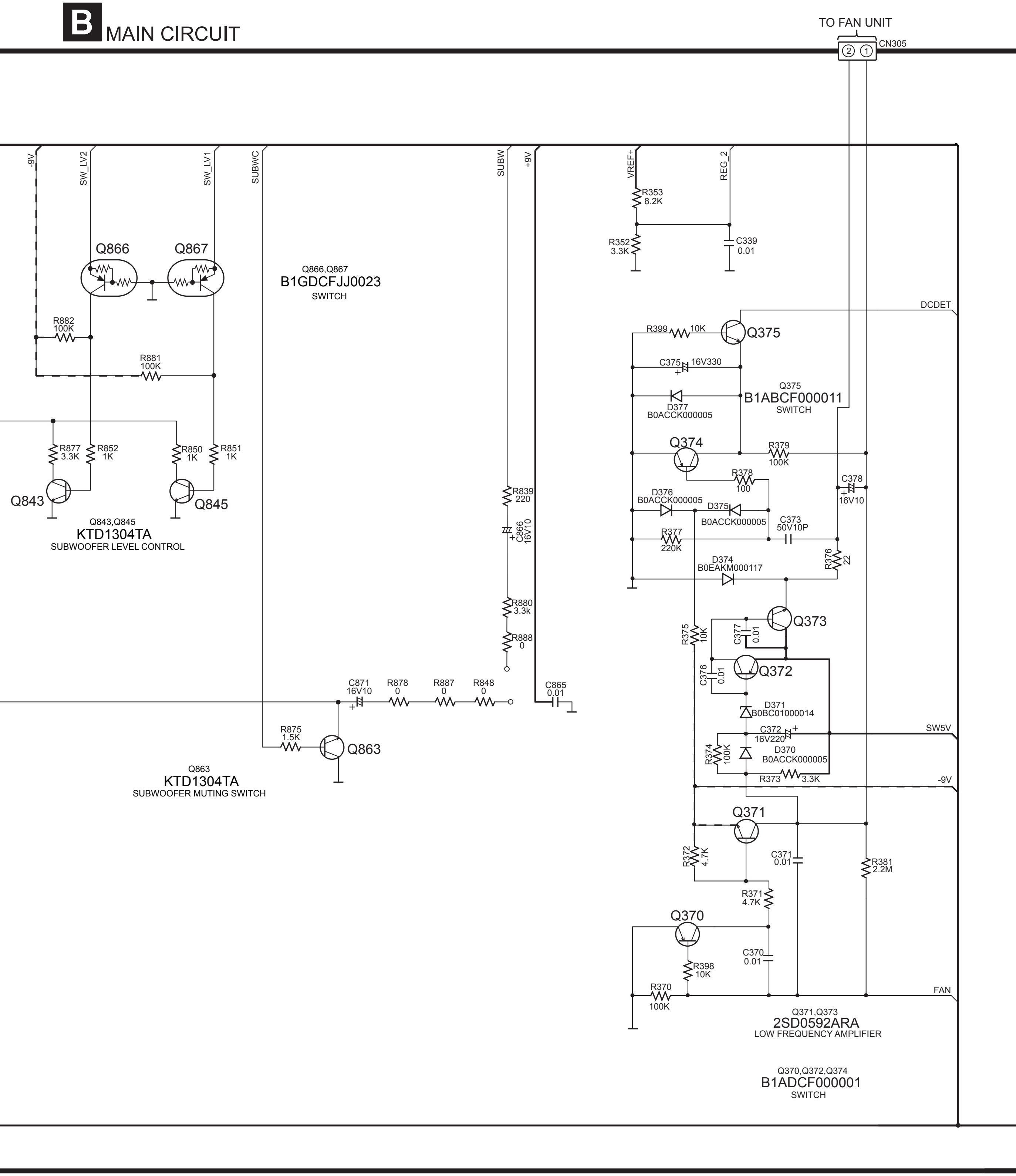
—— : +B SIGNAL LINE – – : -B SIGNAL LINE

B MAIN CIRCUIT


CBLKCK
BLKCK
CCDSTAT
CDSTAT
RESTSW
SW5V
LM_L
VREF+
REG_1
+9V
LM_LIN
LM_RIN
LO_R
LO_L
+9V
R358 10K
R359 4.7K
R360 4.7K
R355 10K
Q302
R356 10K
Q303
R314 4.7K
R313 4.7K
R320 0
Q302
B1ABCF000131
INTERFACE DRIVER
Q303
B1ABCF000131
SWITCH
R315 8.2K
R318 3.3K
C338 0.01
R351 220
Q209,Q409
KTC3875GRTA
SWITCH
R253 1K
D205 MA2J72800L
C252 50V1
R272 2.7K
R271 330K
C250 50V0.022
R252 100K
R276 33K
Q209
C251 50V1
R275 100
R269 82K
D204 B0ADCC000002
C297 16V10
R268 1K
R453 1K
D405 MA2J72800L
C452 50V1
R472 2.7K
R471 330K
C298 16V33
C450 50V0.022
R452 100K
R476 33K
Q409
C451 50V1
R475 100
R469 82K
D404 B0ADCC000002
C497 16V10
R468 1K
R869 10K
C875 16V10
R859 18K
R857 B0BC4R6000016
R856 B0BC4R6000016
R872 10K
R874 3.3K
R873 0
C879 100P
R867 3.9K
C872 0.01
5
6
7
8
IC840
C874 16V10
IC840
C0ABBB000067
DUAL OP-AMP
4
3
2
1
C880 0.01
C882 100P
R864 3.9K
R863 47K
R870 330K
R866 47K
C883 47P
C884 16V10
R861 2.2K
R858 100K
C881 0.068
C877 0.18
L301 100U
X302 H0H433400001
L302 100U
C367 47P
C368 47P
C390 6.3V47
C358 1000P
C322 0.01
C379 560P
9 XIN
10 VSSD
11 VDDD
12 MODE
13 RST
14 RDDA
15 RDCL
16 RDS-ID/READY
XOUT 8
TEST 7
CIN 6
FLOUT 5
VSSA 4
VDDA 3
MPXIN 2
VREF 1
IC303
C356 100P
R339 1K
R341 1K
C355 100P
R397 100K
C394 50V10
C365 330P
R342 1K
C393 50V10
IC303
C1BB00000715
RDS
LM_R
RDS_DAT
RDS_CLK
DET_OUT
SW5V
-9V

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE

B MAIN CIRCUIT


TO FAN UNIT
CN305
② ①
-9V
SW_LV2
SW_LV1
SUBWC
SUBW
+9V
VREF+
REG_2
R353 8.2K
R352 3.3K
C339 0.01
Q866
Q867
Q866,Q867
B1GDCFJJ0023
SWITCH
DCDET
R882 100K
R881 100K
R399 10K
Q375
C375 16V330
D377 B0ACCK000005
Q375
B1ABCF000011
SWITCH
R877 3.3K
R852 1K
R850 1K
R851 1K
Q843
Q845
Q843,Q845
KTD1304TA
SUBWOOFER LEVEL CONTROL
Q374
R379 100K
R378 100
C378 16V10
D376 B0ACCK000005
D375 B0ACCK000005
C373 50V10P
R839 220
C866 16V10
R377 220K
R376 22
D374 B0EAKM000117
R880 3.3k
R888 0
Q373
R375 10K
C377 0.01
Q372
C376 0.01
C871 16V10
R878 0
R887 0
R848 0
C865 0.01
D371 B0BC01000014
C372 16V220
SW5V
R875 1.5K
Q863
R374 100K
D370 B0ACCK000005
R373 3.3K
-9V
Q863
KTD1304TA
SUBWOOFER MUTING SWITCH
Q371
R372 4.7K
C371 0.01
R381 2.2M
R371 4.7K
Q370
C370 0.01
R398 10K
R370 100K
FAN
Q371,Q373
2SD0592ARA
LOW FREQUENCY AMPLIFIER
Q370,Q372,Q374
B1ADCF000001
SWITCH

SCHEMATIC DIAGRAM - 9

—— : +B SIGNAL LINE

– – : -B SIGNAL LINE

▥ : AUX SIGNAL LINE

▦ : CD SIGNAL LINE

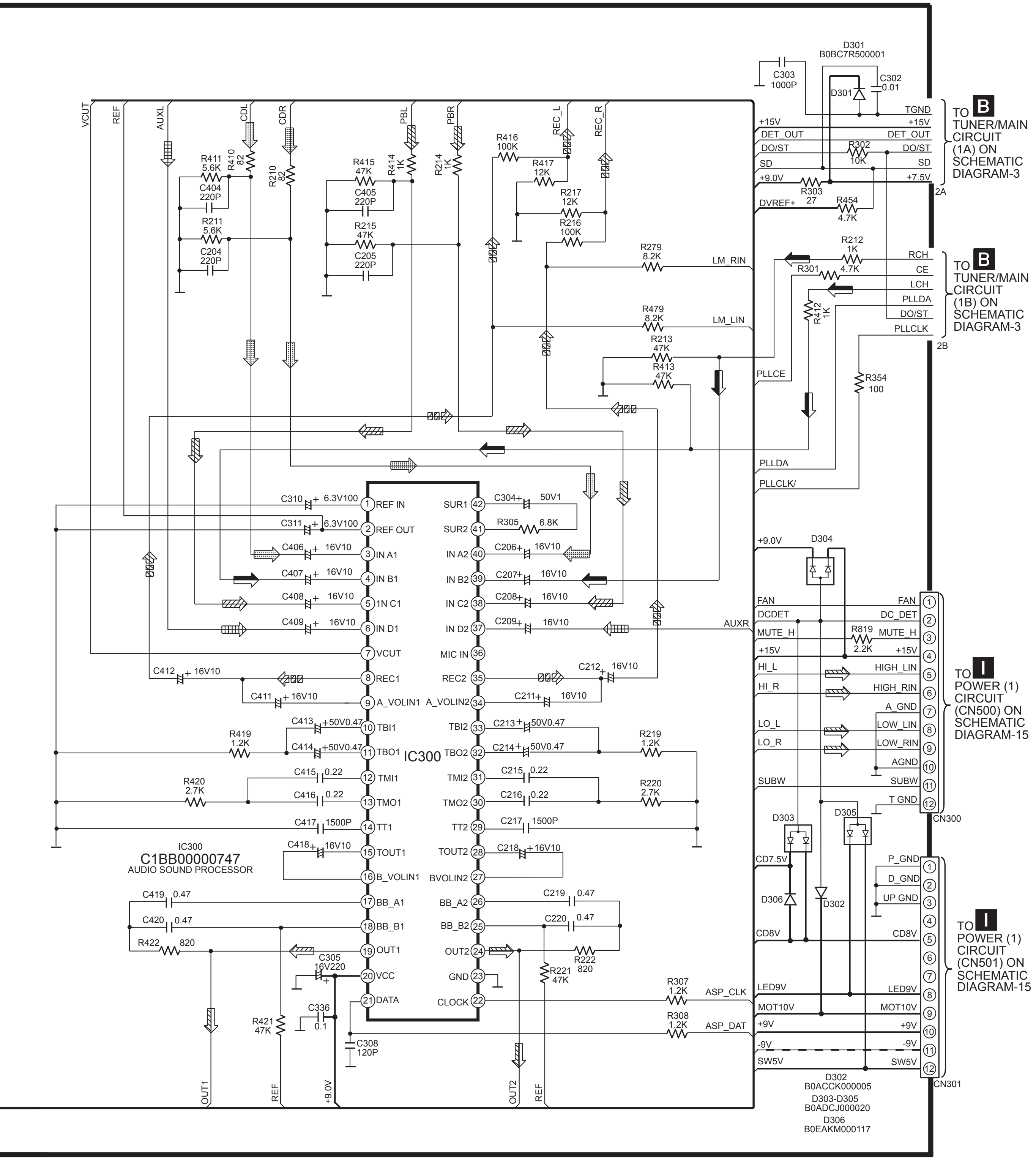
➡ : FM/AM SIGNAL LINE

⇨ : MAIN SIGNAL LINE

▨ : PLAYBACK SIGNAL LINE

▯ : RECORD SIGNAL LINE

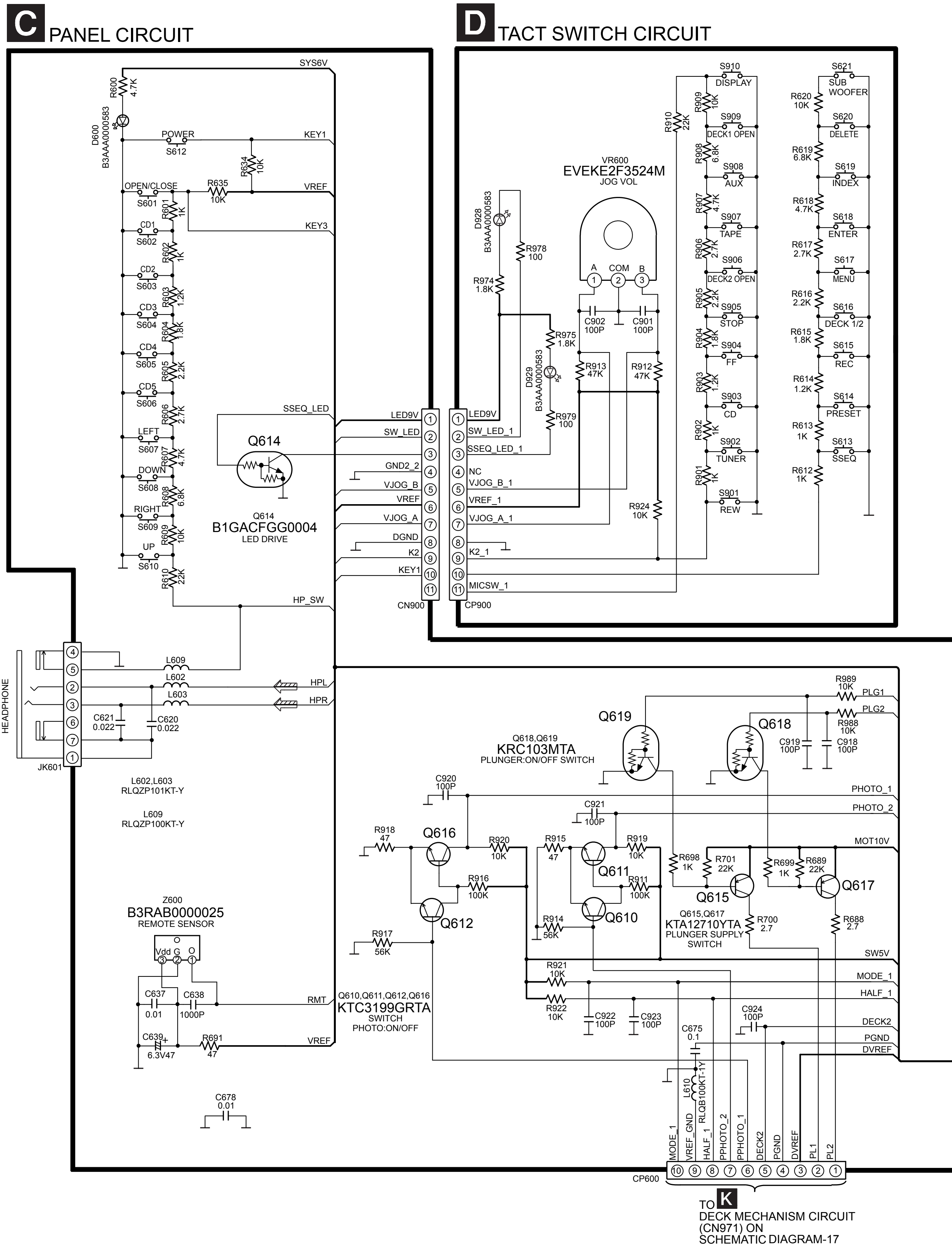
B MAIN CIRCUIT



VCUT
REF
AUXL
CDL
CDR
PBL
PBR
REC_L
REC_R
R411 5.6K
R410 82
C404 220P
R211 5.6K
C204 220P
R210 82
R415 47K
R414 1K
C405 220P
R215 47K
C205 220P
R214 1K
R416 100K
R417 12K
R217 12K
R216 100K
R279 8.2K
LM_RIN
R479 8.2K
LM_LIN
R213 47K
R413 47K
C303 1000P
D301 B0BC7R500001
C302 0.01
D301
TGND
+15V
DET_OUT
DO/ST
R302 10K
SD
+9.0V
+7.5V
R303 27
DVREF+
R454 4.7K
2A
TO B TUNER/MAIN CIRCUIT (1A) ON SCHEMATIC DIAGRAM-3
R212 1K
RCH
R301 4.7K
CE
LCH
R412 1K
PLLDA
DO/ST
PLLCLK
2B
TO B TUNER/MAIN CIRCUIT (1B) ON SCHEMATIC DIAGRAM-3
PLLCE
R354 100
PLLDA
PLLCLK/
C310 6.3V100
C311 6.3V100
C406 16V10
C407 16V10
C408 16V10
C409 16V10
C412 16V10
C411 16V10
C413 50V0.47
C414 50V0.47
R419 1.2K
C415 0.22
R420 2.7K
C416 0.22
C417 1500P
C418 16V10
C419 0.47
C420 0.47
R422 820
C305 16V220
C336 0.1
C308 120P
R421 47K
1 REF IN
2 REF OUT
3 IN A1
4 IN B1
5 IN C1
6 IN D1
7 VCUT
8 REC1
9 A_VOLIN1
10 TBI1
11 TBO1
12 TMI1
13 TMO1
14 TT1
15 TOUT1
16 B_VOLIN1
17 BB_A1
18 BB_B1
19 OUT1
20 VCC
21 DATA
42 SUR1
41 SUR2
40 IN A2
39 IN B2
38 IN C2
37 IN D2
36 MIC IN
35 REC2
34 A_VOLIN2
33 TBI2
32 TBO2
31 TMI2
30 TMO2
29 TT2
28 TOUT2
27 BVOLIN2
26 BB_A2
25 BB_B2
24 OUT2
23 GND
22 CLOCK
IC300
IC300 C1BB00000747 AUDIO SOUND PROCESSOR
C304 50V1
R305 6.8K
C206 16V10
C207 16V10
C208 16V10
C209 16V10
C212 16V10
C211 16V10
C213 50V0.47
C214 50V0.47
R219 1.2K
C215 0.22
C216 0.22
R220 2.7K
C217 1500P
C218 16V10
C219 0.47
C220 0.47
R222 820
R221 47K
R307 1.2K
ASP_CLK
R308 1.2K
ASP_DAT
OUT1
REF
+9.0V
OUT2
REF
+9.0V
D304
FAN
DCDET
MUTE_H
+15V
HI_L
HI_R
LO_L
LO_R
SUBW
AUXR
FAN
DC_DET
R819 2.2K
MUTE_H
+15V
HIGH_LIN
HIGH_RIN
A_GND
LOW_LIN
LOW_RIN
AGND
SUBW
T GND
CN300
TO I POWER (1) CIRCUIT (CN500) ON SCHEMATIC DIAGRAM-15
D303
D305
CD7.5V
D306
D302
CD8V
LED9V
MOT10V
+9V
-9V
SW5V
P_GND
D_GND
UP GND
CD8V
LED9V
MOT10V
+9V
-9V
SW5V
CN301
TO I POWER (1) CIRCUIT (CN501) ON SCHEMATIC DIAGRAM-15
D302 B0ACCK000005
D303-D305 B0ADCJ000020
D306 B0EAKM000117

SCHEMATIC DIAGRAM - 10

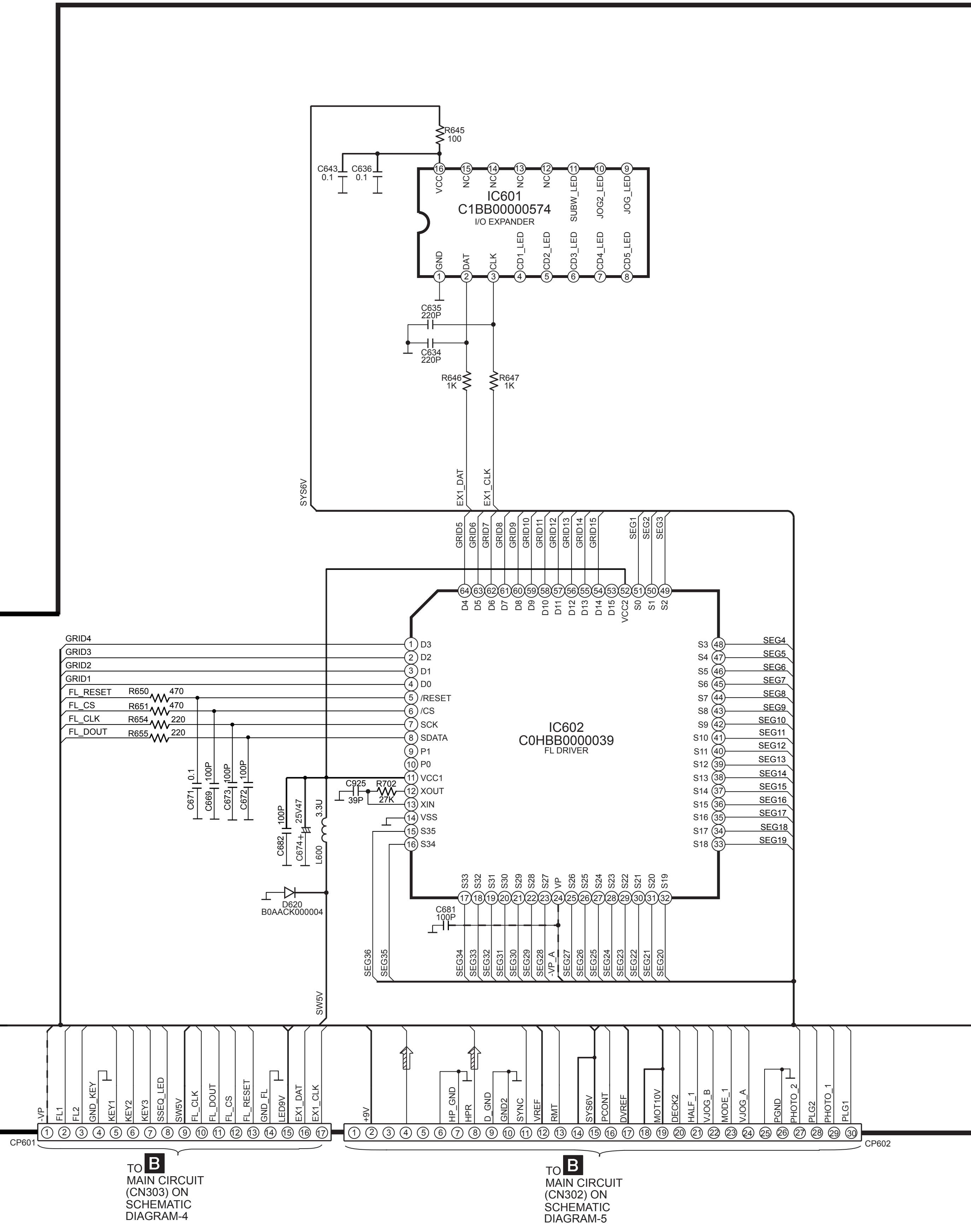
—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE


C PANEL CIRCUIT
D TACT SWITCH CIRCUIT
SYS6V
R600 4.7K
D600 B3AAA0000583
POWER S612
KEY1
R634 10K
OPEN/CLOSE S601
R635 10K
VREF
R601 1K
KEY3
CD1 S602
R602 1K
CD2 S603
R603 1.2K
CD3 S604
R604 1.8K
CD4 S605
R605 2.2K
CD5 S606
R606 2.7K
LEFT S607
R607 4.7K
DOWN S608
R608 6.8K
RIGHT S609
R609 10K
UP S610
R610 22K
SSEQ_LED
Q614
Q614 B1GACFGG0004 LED DRIVE
LED9V
SW_LED
GND2_2
VJOG_B
VREF
VJOG_A
DGND
K2
KEY1
HP_SW
CN900
CP900
LED9V
SW_LED_1
SSEQ_LED_1
NC
VJOG_B_1
VREF_1
VJOG_A_1
K2_1
MICSW_1
D928 B3AAA0000583
R978 100
R974 1.8K
R975 1.8K
D929 B3AAA0000583
R979 100
VR600 EVEKE2F3524M JOG VOL
A COM B
C902 100P
C901 100P
R913 47K
R912 47K
R924 10K
R910 22K
S910 DISPLAY
R909 10K
S909 DECK1 OPEN
R908 6.8K
S908 AUX
R907 4.7K
S907 TAPE
R906 2.7K
S906 DECK2 OPEN
R905 2.2K
S905 STOP
R904 1.8K
S904 FF
R903 1.2K
S903 CD
R902 1K
S902 TUNER
R901 1K
S901 REW
S621 SUB WOOFER
R620 10K
S620 DELETE
R619 6.8K
S619 INDEX
R618 4.7K
S618 ENTER
R617 2.7K
S617 MENU
R616 2.2K
S616 DECK 1/2
R615 1.8K
S615 REC
R614 1.2K
S614 PRESET
R613 1K
S613 SSEQ
R612 1K
HEADPHONE
JK601
L609
L602
L603
HPL
HPR
C621 0.022
C620 0.022
L602,L603 RLQZP101KT-Y
L609 RLQZP100KT-Y
Z600 B3RAB0000025 REMOTE SENSOR
Vdd G O
C637 0.01
C638 1000P
RMT
C639 6.3V47
R691 47
VREF
C678 0.01
R989 10K
PLG1
PLG2
R988 10K
Q619
Q618
Q618,Q619 KRC103MTA PLUNGER:ON/OFF SWITCH
C919 100P
C918 100P
C920 100P
PHOTO_1
C921 100P
PHOTO_2
R918 47
Q616
R920 10K
R915 47
R919 10K
MOT10V
R698 1K
R701 22K
R699 1K
R689 22K
Q611
R916 100K
R911 100K
Q615
Q617
Q612
Q610
R914 56K
R917 56K
Q615,Q617 KTA12710YTA PLUNGER SUPPLY SWITCH
R700 2.7
R688 2.7
SW5V
R921 10K
MODE_1
HALF_1
R922 10K
C922 100P
C923 100P
Q610,Q611,Q612,Q616 KTC3199GRTA SWITCH PHOTO:ON/OFF
C924 100P
DECK2
C675 0.1
PGND
DVREF
L610 RLQB100KT-1Y
MODE_1 VREF_GND HALF_1 PPHOTO_2 PPHOTO_1 DECK2 PGND DVREF PL1 PL2
CP600
TO K DECK MECHANISM CIRCUIT (CN971) ON SCHEMATIC DIAGRAM-17

SCHEMATIC DIAGRAM - 11

C PANEL CIRCUIT

— : +B SIGNAL LINE — — : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

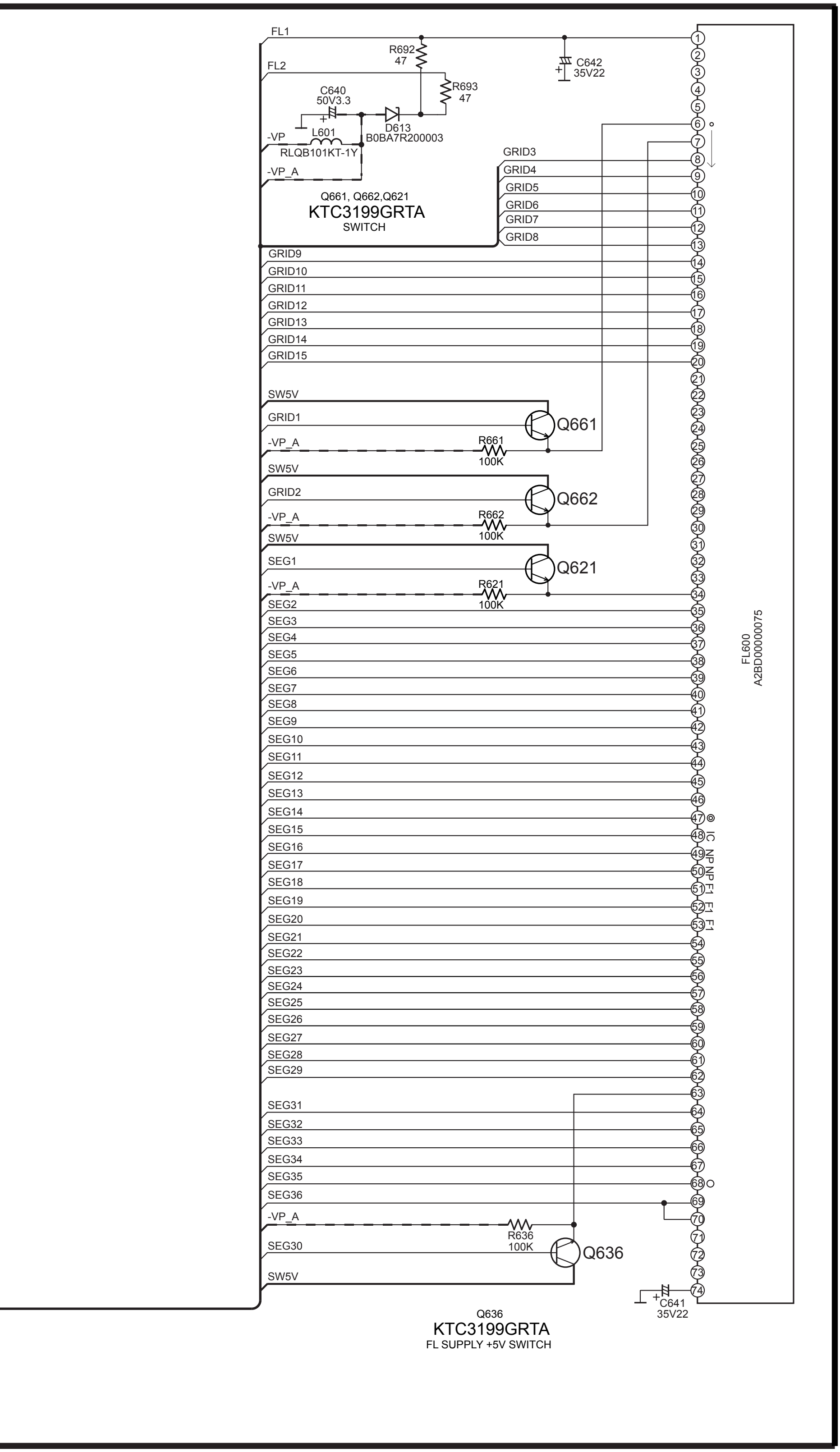


R645
100
C643
0.1
C636
0.1
IC601
C1BB00000574
I/O EXPANDER
16 VCC
15 NC
14 NC
13 NC
12 NC
11 SUBW_LED
10 JOG2_LED
9 JOG_LED
1 GND
2 DAT
3 CLK
4 CD1_LED
5 CD2_LED
6 CD3_LED
7 CD4_LED
8 CD5_LED
C635
220P
C634
220P
R646
1K
R647
1K
SYS6V
EX1_DAT
EX1_CLK
GRID5
GRID6
GRID7
GRID8
GRID9
GRID10
GRID11
GRID12
GRID13
GRID14
GRID15
SEG1
SEG2
SEG3
IC602
C0HBB0000039
FL DRIVER
64 D4
63 D5
62 D6
61 D7
60 D8
59 D9
58 D10
57 D11
56 D12
55 D13
54 D14
53 D15
52 VCC2
51 S0
50 S1
49 S2
1 D3
2 D2
3 D1
4 D0
5 /RESET
6 /CS
7 SCK
8 SDATA
9 P1
10 P0
11 VCC1
12 XOUT
13 XIN
14 VSS
15 S35
16 S34
48 S3
47 S4
46 S5
45 S6
44 S7
43 S8
42 S9
41 S10
40 S11
39 S12
38 S13
37 S14
36 S15
35 S16
34 S17
33 S18
17 S33
18 S32
19 S31
20 S30
21 S29
22 S28
23 S27
24 VP
25 S26
26 S25
27 S24
28 S23
29 S22
30 S21
31 S20
32 S19
GRID4
GRID3
GRID2
GRID1
FL_RESET
FL_CS
FL_CLK
FL_DOUT
R650 470
R651 470
R654 220
R655 220
C671 0.1
C669 100P
C673 100P
C672 100P
C682 100P
C674 25V47
L600 3.3U
C925
39P
R702
27K
D620
B0AACK000004
SW5V
C681
100P
SEG4
SEG5
SEG6
SEG7
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG36
SEG35
SEG34
SEG33
SEG32
SEG31
SEG30
SEG29
SEG28
-VP_A
SEG27
SEG26
SEG25
SEG24
SEG23
SEG22
SEG21
SEG20
CP601
1 -VP
2 FL1
3 FL2
4 GND_KEY
5 KEY1
6 KEY2
7 KEY3
8 SSEQ_LED
9 SW5V
10 FL_CLK
11 FL_DOUT
12 FL_CS
13 FL_RESET
14 GND_FL
15 LED9V
16 EX1_DAT
17 EX1_CLK
CP602
1 +9V
2
3
4
5
6
7 HP_GND
8 HPR
9 D_GND
10 GND2
11 SYNC
12 VREF
13 RMT
14
15 SYS6V
16 PCONT
17 DVREF
18
19 MOT10V
20 DECK2
21 HALF_1
22 VJOG_B
23 MODE_1
24 VJOG_A
25
26 PGND
27 PHOTO_2
28 PLG2
29 PHOTO_1
30 PLG1
TO B
MAIN CIRCUIT
(CN303) ON
SCHEMATIC
DIAGRAM-4
TO B
MAIN CIRCUIT
(CN302) ON
SCHEMATIC
DIAGRAM-5

SCHEMATIC DIAGRAM - 12

C PANEL CIRCUIT

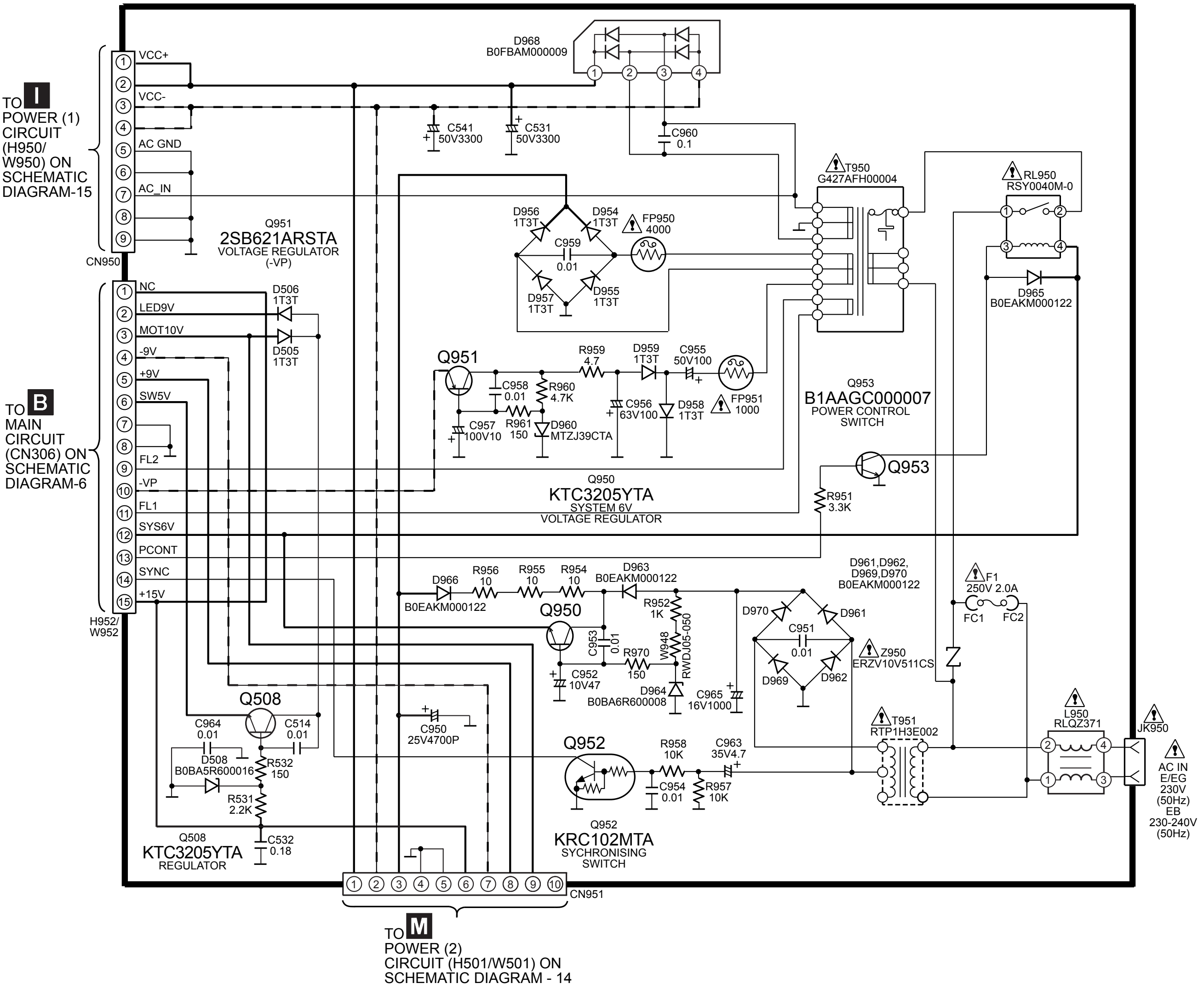
—— : +B SIGNAL LINE — — : -B SIGNAL LINE


FL1
FL2
R692
47
C642
35V22
R693
47
C640
50V3.3
D613
B0BA7R200003
-VP
L601
RLQB101KT-1Y
-VP_A
Q661, Q662,Q621
KTC3199GRTA
SWITCH
GRID3
GRID4
GRID5
GRID6
GRID7
GRID8
GRID9
GRID10
GRID11
GRID12
GRID13
GRID14
GRID15
SW5V
GRID1
Q661
-VP_A
R661
100K
SW5V
GRID2
Q662
-VP_A
R662
100K
SW5V
SEG1
Q621
-VP_A
R621
100K
SEG2
SEG3
SEG4
SEG5
SEG6
SEG7
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG20
SEG21
SEG22
SEG23
SEG24
SEG25
SEG26
SEG27
SEG28
SEG29
SEG31
SEG32
SEG33
SEG34
SEG35
SEG36
-VP_A
R636
100K
SEG30
Q636
SW5V
C641
35V22
FL600
A2BD0000075
IC
NP
NP
F1
F1
F1
Q636
KTC3199GRTA
FL SUPPLY +5V SWITCH

SCHEMATIC DIAGRAM - 13

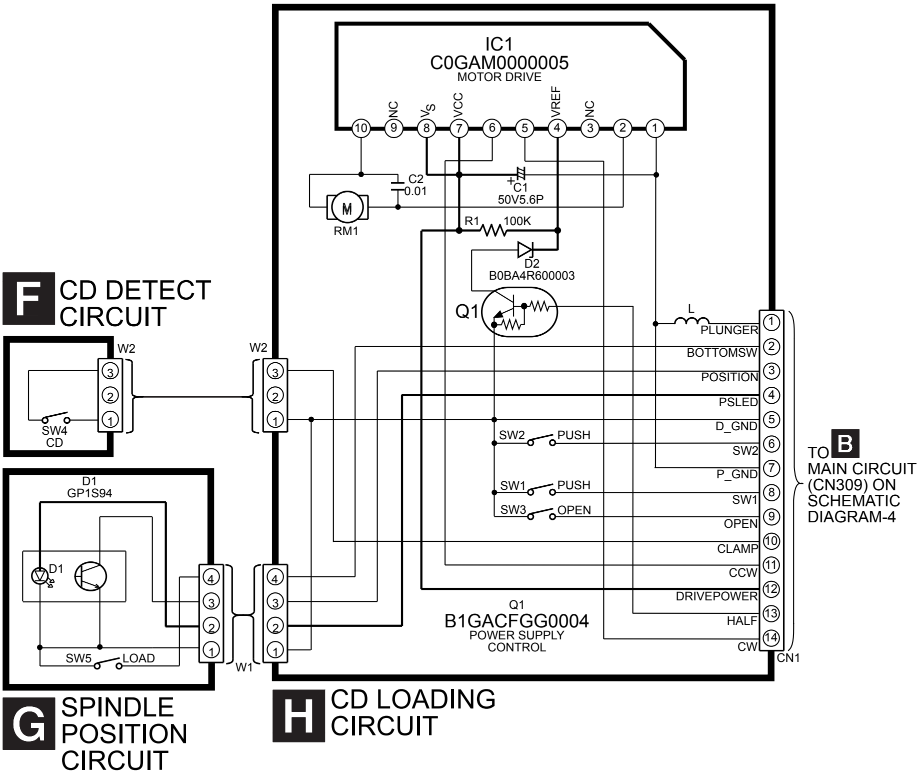
—— : +B SIGNAL LINE   - - : -B SIGNAL LINE

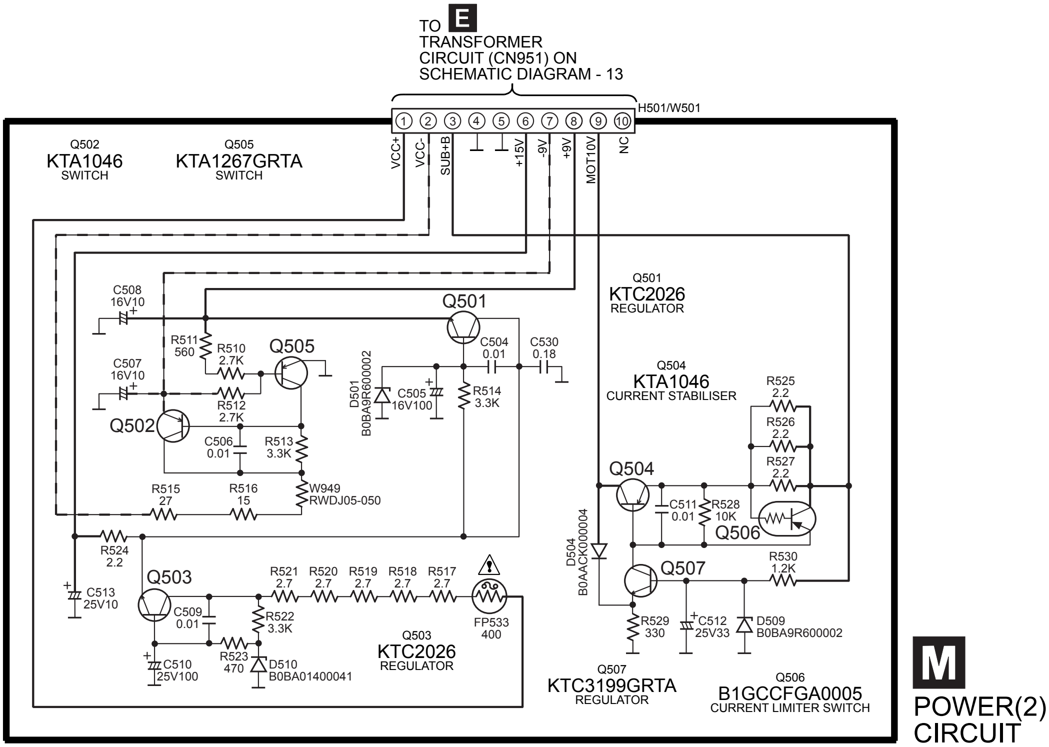
E TRANSFORMER CIRCUIT


TO I
POWER (1)
CIRCUIT
(H950/
W950) ON
SCHEMATIC
DIAGRAM-15
VCC+
VCC-
AC GND
AC_IN
CN950
TO B
MAIN
CIRCUIT
(CN306) ON
SCHEMATIC
DIAGRAM-6
NC
LED9V
MOT10V
-9V
+9V
SW5V
FL2
-VP
FL1
SYS6V
PCONT
SYNC
+15V
H952/
W952
D968
B0FBAM000009
C541
50V3300
C531
50V3300
C960
0.1
Q951
2SB621ARSTA
VOLTAGE REGULATOR
(-VP)
D956
1T3T
D954
1T3T
FP950
4000
C959
0.01
D957
1T3T
D955
1T3T
T950
G427AFH00004
RL950
RSY0040M-0
D965
B0EAKM000122
D506
1T3T
D505
1T3T
Q951
R959
4.7
D959
1T3T
C955
50V100
FP951
1000
C958
0.01
R960
4.7K
C956
63V100
D958
1T3T
C957
100V10
R961
150
D960
MTZJ39CTA
Q953
B1AAGC000007
POWER CONTROL
SWITCH
Q953
Q950
KTC3205YTA
SYSTEM 6V
VOLTAGE REGULATOR
R951
3.3K
D961,D962,
D969,D970
B0EAKM000122
D966
R956
10
R955
10
R954
10
D963
B0EAKM000122
B0EAKM000122
Q950
R952
1K
C953
0.01
W948
RWDJ05-050
D970
D961
C951
0.01
Z950
ERZV10V511CS
D969
D962
F1
250V 2.0A
FC1
FC2
R970
150
C952
10V47
D964
B0BA6R600008
C965
16V1000
Q508
C964
0.01
C514
0.01
D508
B0BA5R600016
R532
150
R531
2.2K
C532
0.18
Q508
KTC3205YTA
REGULATOR
C950
25V4700P
Q952
R958
10K
C963
35V4.7
C954
0.01
R957
10K
Q952
KRC102MTA
SYCHRONISING
SWITCH
T951
RTP1H3E002
L950
RLQZ371
JK950
AC IN
E/EG
230V
(50Hz)
EB
230-240V
(50Hz)
CN951
TO M
POWER (2)
CIRCUIT (H501/W501) ON
SCHEMATIC DIAGRAM - 14

SCHEMATIC DIAGRAM - 14

—— : +B SIGNAL LINE
– – : -B SIGNAL LINE

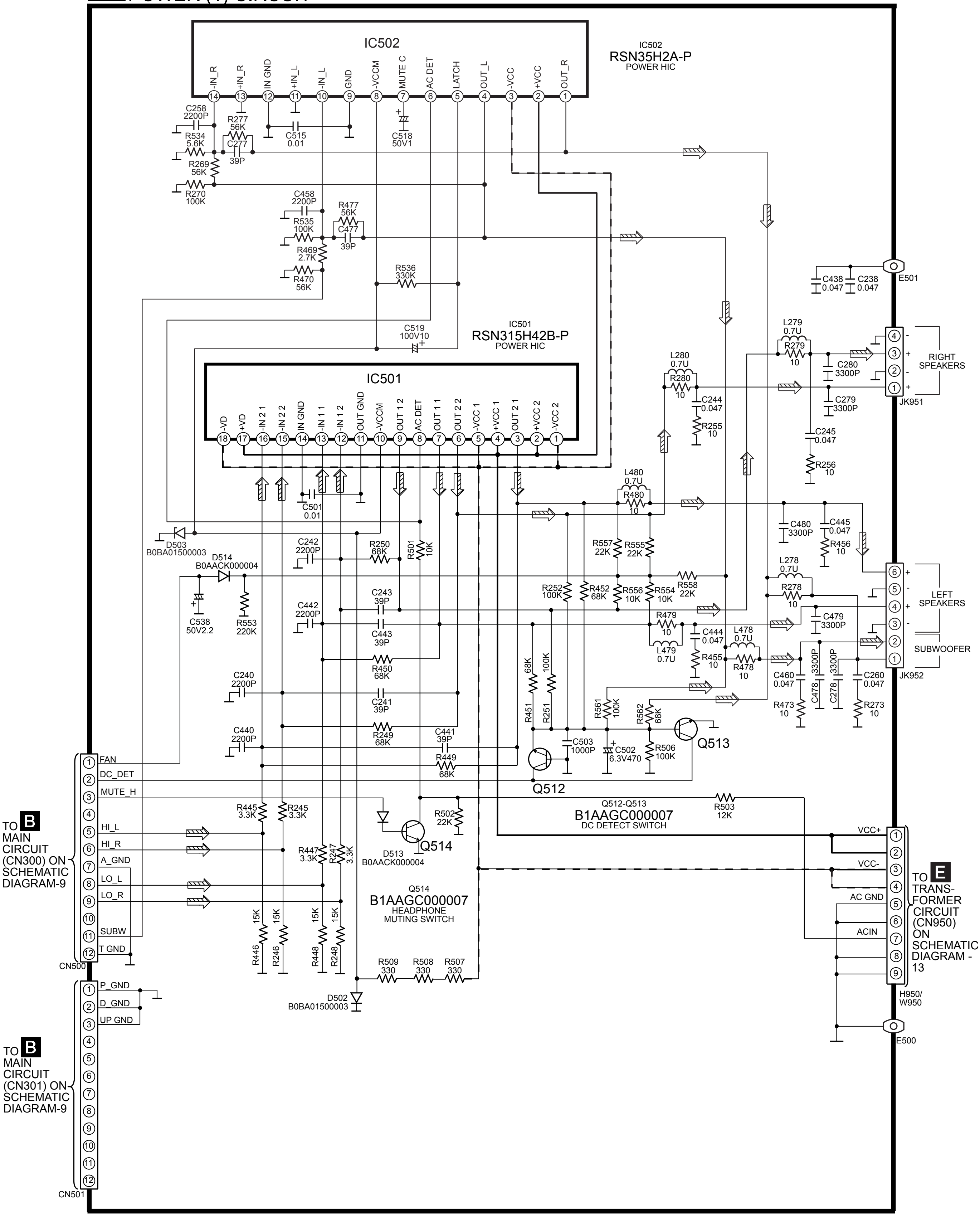

IC1
C0GAM0000005
MOTOR DRIVE
NC
VS
VCC
VREF
NC
10
9
8
7
6
5
4
3
2
1
C2
0.01
C1
50V5.6P
M
RM1
R1
100K
D2
B0BA4R600003
Q1
L
PLUNGER
BOTTOMSW
POSITION
PSLED
D_GND
SW2
P_GND
SW1
OPEN
CLAMP
CCW
DRIVEPOWER
HALF
CW
CN1
SW2 PUSH
SW1 PUSH
SW3 OPEN
Q1
B1GACFGG0004
POWER SUPPLY
CONTROL
TO B
MAIN CIRCUIT
(CN309) ON
SCHEMATIC
DIAGRAM-4
F
CD DETECT
CIRCUIT
W2
W2
SW4
CD
D1
GP1S94
D1
SW5 LOAD
W1
G
SPINDLE
POSITION
CIRCUIT
H
CD LOADING
CIRCUIT


TO E
TRANSFORMER
CIRCUIT (CN951) ON
SCHEMATIC DIAGRAM - 13
H501/W501
1
2
3
4
5
6
7
8
9
10
VCC+
VCC-
SUB+B
+15V
-9V
+9V
MOT10V
NC
Q502
KTA1046
SWITCH
Q505
KTA1267GRTA
SWITCH
Q501
KTC2026
REGULATOR
C508
16V10
C507
16V10
R511
560
R510
2.7K
Q505
R512
2.7K
Q502
C506
0.01
R513
3.3K
R515
27
R516
15
W949
RWDJ05-050
Q501
C504
0.01
C530
0.18
D501
B0BA9R600002
C505
16V100
R514
3.3K
Q504
KTA1046
CURRENT STABILISER
R525
2.2
R526
2.2
R527
2.2
Q504
C511
0.01
R528
10K
Q506
D504
B0AACK000004
Q507
R530
1.2K
R529
330
C512
25V33
D509
B0BA9R600002
R524
2.2
Q503
C513
25V10
R521
2.7
R520
2.7
R519
2.7
R518
2.7
R517
2.7
FP533
400
C509
0.01
R522
3.3K
R523
470
C510
25V100
D510
B0BA01400041
Q503
KTC2026
REGULATOR
Q507
KTC3199GRTA
REGULATOR
Q506
B1GCCFGA0005
CURRENT LIMITER SWITCH
M
POWER(2)
CIRCUIT

SCHEMATIC DIAGRAM - 15

: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE

I POWER (1) CIRCUIT


IC502
IC502
RSN35H2A-P
POWER HIC
-IN_R 14
+IN_R 13
IN GND 12
+IN_L 11
-IN_L 10
GND 9
-VCCM 8
MUTE C 7
AC DET 6
LATCH 5
OUT_L 4
-VCC 3
+VCC 2
OUT_R 1
C258 2200P
R534 5.6K
R277 56K
C277 39P
R269 56K
R270 100K
C515 0.01
C518 50V1
C458 2200P
R535 100K
R477 56K
C477 39P
R469 2.7K
R470 56K
R536 330K
C519 100V10
IC501
RSN315H42B-P
POWER HIC
IC501
-VD 18
+VD 17
-IN 2 1 16
-IN 2 2 15
IN GND 14
-IN 1 1 13
-IN 1 2 12
OUT GND 11
-VCCM 10
OUT 1 2 9
AC DET 8
OUT 1 1 7
OUT 2 2 6
-VCC 1 5
+VCC 1 4
OUT 2 1 3
+VCC 2 2
-VCC 2 1
C501 0.01
D503 B0BA01500003
D514 B0AACK000004
C538 50V2.2
R553 220K
C242 2200P
R250 68K
R501 10K
C243 39P
C442 2200P
C443 39P
R450 68K
C240 2200P
C241 39P
R249 68K
C440 2200P
C441 39P
R449 68K
R445 3.3K
R245 3.3K
R447 3.3K
R247 3.3K
R446 15K
R246 15K
R448 15K
R248 15K
R502 22K
D513 B0AACK000004
Q514
Q514
B1AAGC000007
HEADPHONE
MUTING SWITCH
R509 330
R508 330
R507 330
D502 B0BA01500003
R252 100K
R452 68K
R557 22K
R555 22K
R556 10K
R554 10K
R558 22K
L480 0.7U
R480 10
C480 3300P
C445 0.047
R456 10
R451 68K
R251 100K
C503 1000P
C502 6.3V470
R561 100K
R562 68K
R506 100K
Q512
Q513
Q512-Q513
B1AAGC000007
DC DETECT SWITCH
R503 12K
R479 10
L479 0.7U
C444 0.047
R455 10
L478 0.7U
R478 10
C460 0.047
C478 3300P
C278 3300P
C260 0.047
R473 10
R273 10
L278 0.7U
R278 10
C479 3300P
L280 0.7U
R280 10
C244 0.047
R255 10
L279 0.7U
R279 10
C280 3300P
C279 3300P
C245 0.047
R256 10
C438 0.047
C238 0.047
E501
JK951
RIGHT SPEAKERS
JK952
LEFT SPEAKERS
SUBWOOFER
CN500
1 FAN
2 DC_DET
3 MUTE_H
4
5 HI_L
6 HI_R
7 A_GND
8 LO_L
9 LO_R
10
11 SUBW
12 T GND
TO B MAIN CIRCUIT (CN300) ON SCHEMATIC DIAGRAM-9
CN501
1 P_GND
2 D_GND
3 UP GND
TO B MAIN CIRCUIT (CN301) ON SCHEMATIC DIAGRAM-9
VCC+
VCC-
AC GND
ACIN
H950/ W950
TO E TRANS-FORMER CIRCUIT (CN950) ON SCHEMATIC DIAGRAM - 13
E500

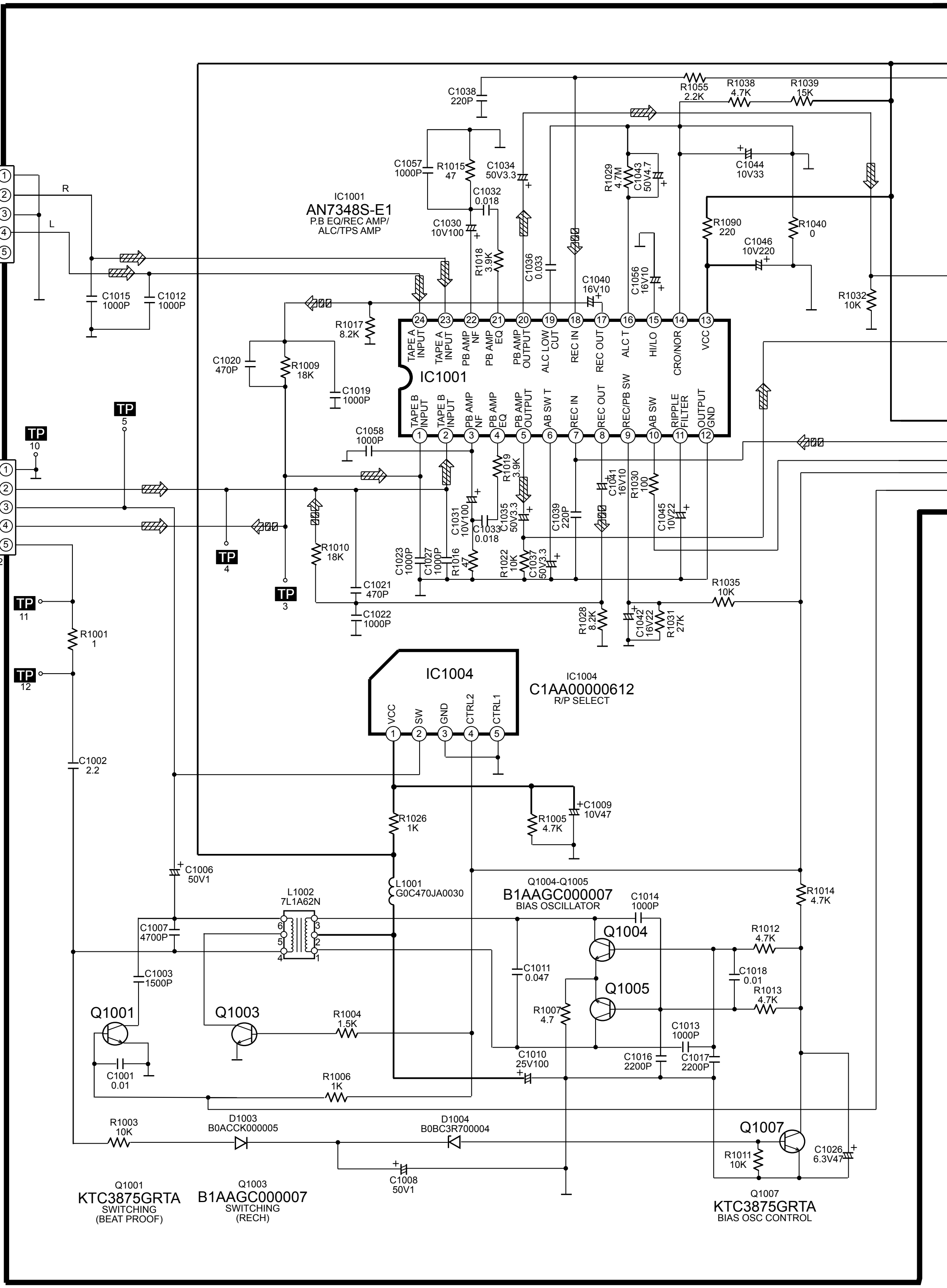
SCHEMATIC DIAGRAM -16

—— : +B SIGNAL LINE

▨ : PLAYBACK SIGNAL LINE

▨ : RECORD SIGNAL LINE

J DECK CIRCUIT


PLAYBACK HEAD
L
R
CS1001
RECORD/PLAY HEAD
ERASE HEAD
CS1002
TP 10
TP 5
TP 4
TP 3
TP 11
TP 12
C1015 1000P
C1012 1000P
C1038 220P
C1057 1000P
R1015 47
C1034 50V3.3
C1032 0.018
C1030 10V100
R1018 3.9K
C1036 0.033
C1040 16V10
C1056 16V10
R1029 4.7M
C1043 50V4.7
R1055 2.2K
R1038 4.7K
R1039 15K
C1044 10V33
R1090 220
C1046 10V220
R1040 0
R1032 10K
IC1001
AN7348S-E1
P.B EQ/REC AMP/ ALC/TPS AMP
R1017 8.2K
C1020 470P
R1009 18K
C1019 1000P
C1058 1000P
TAPE A INPUT
PB AMP NF
PB AMP EQ
PB AMP OUTPUT
ALC LOW CUT
REC IN
REC OUT
ALC T
HI/LO
CRO/NOR
VCC
TAPE B INPUT
AB SW T
REC/PB SW
AB SW
RIPPLE FILTER
OUTPUT GND
R1019 3.9K
C1031 10V100
C1033 0.018
C1035 50V3.3
C1039 220P
C1041 16V10
R1030 100
C1045 10V22
R1010 18K
C1021 470P
C1022 1000P
C1023 1000P
C1027 1000P
R1016 47
R1022 10K
C1037 50V3.3
R1028 8.2K
C1042 16V22
R1031 27K
R1035 10K
R1001 1
C1002 2.2
IC1004
C1AA00000612
R/P SELECT
VCC
SW
GND
CTRL2
CTRL1
C1009 10V47
R1005 4.7K
R1026 1K
C1006 50V1
L1001 G0C470JA0030
L1002 7L1A62N
C1007 4700P
C1003 1500P
Q1004-Q1005
B1AAGC000007
BIAS OSCILLATOR
C1014 1000P
R1014 4.7K
Q1004
Q1005
C1011 0.047
R1007 4.7
R1012 4.7K
C1018 0.01
R1013 4.7K
C1013 1000P
C1010 25V100
C1016 2200P
C1017 2200P
Q1001
Q1003
R1004 1.5K
C1001 0.01
R1006 1K
R1003 10K
D1003 B0ACCK000005
D1004 B0BC3R700004
C1008 50V1
Q1007
R1011 10K
C1026 6.3V47
Q1001 KTC3875GRTA SWITCHING (BEAT PROOF)
Q1003 B1AAGC000007 SWITCHING (RECH)
Q1007 KTC3875GRTA BIAS OSC CONTROL

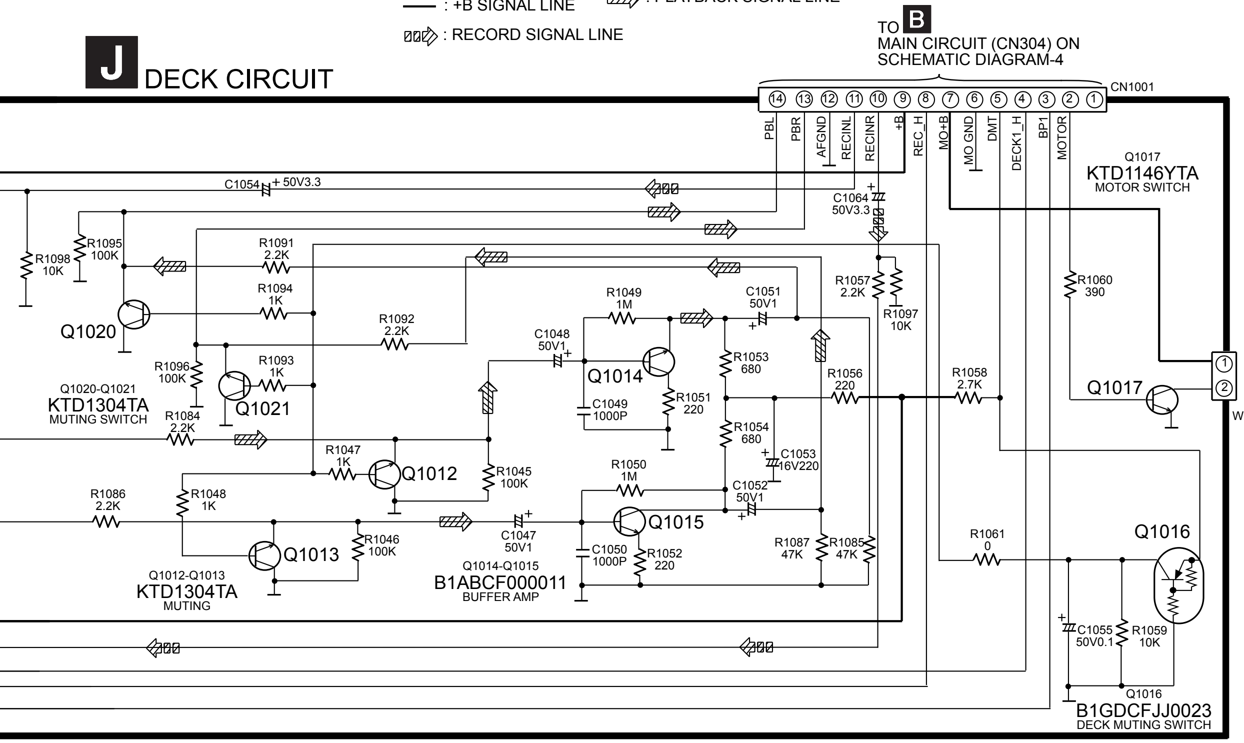
SCHEMATIC DIAGRAM - 17

—— : +B SIGNAL LINE

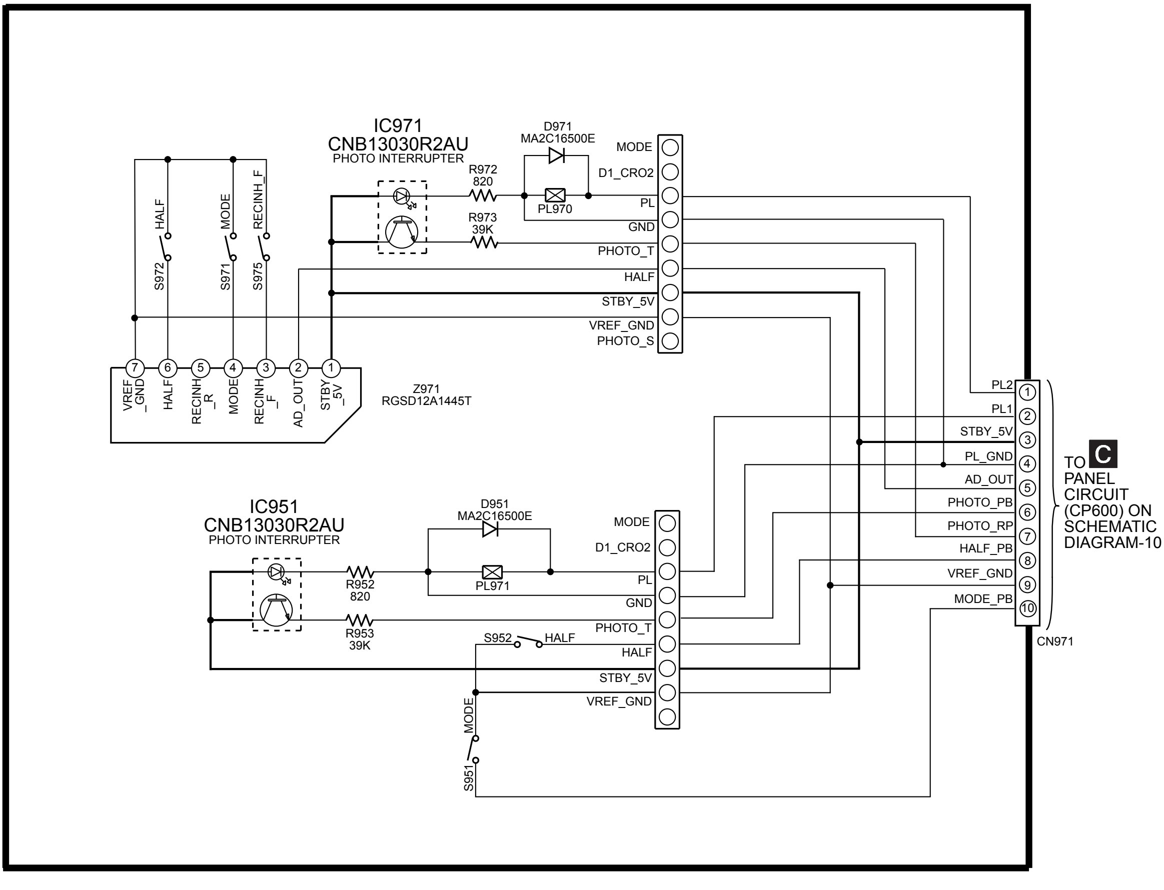
▨ : PLAYBACK SIGNAL LINE

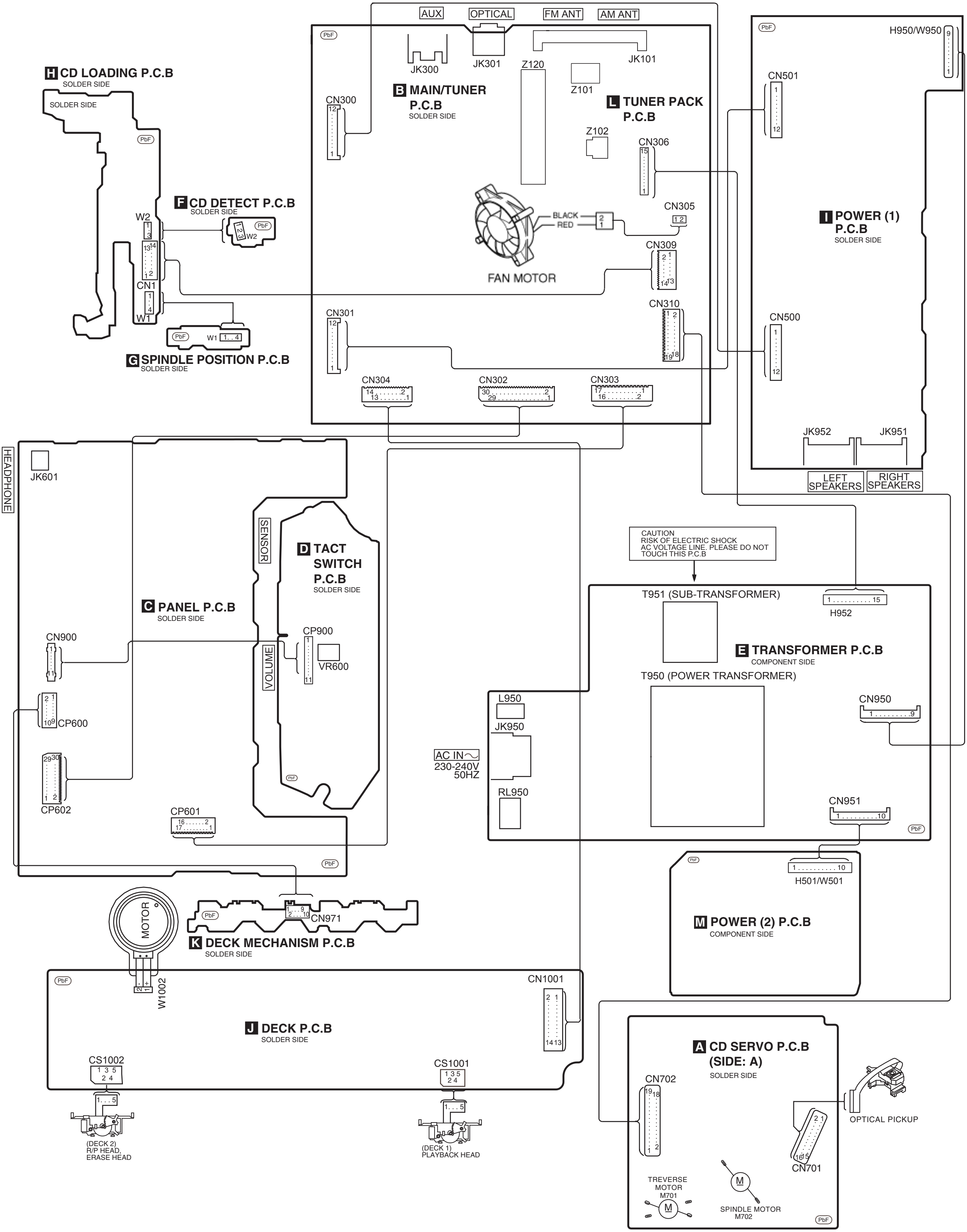
▨ : RECORD SIGNAL LINE

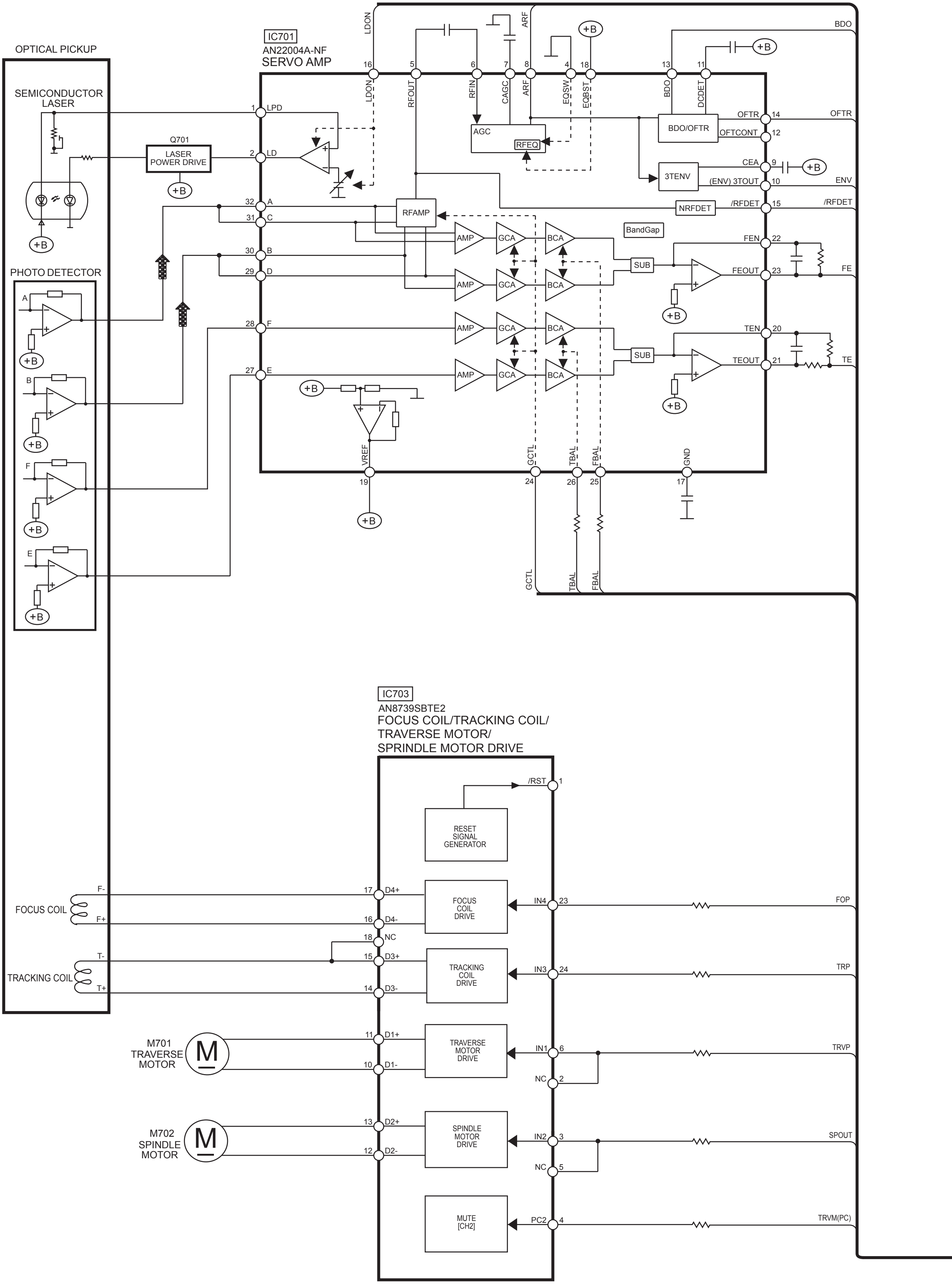
J DECK CIRCUIT

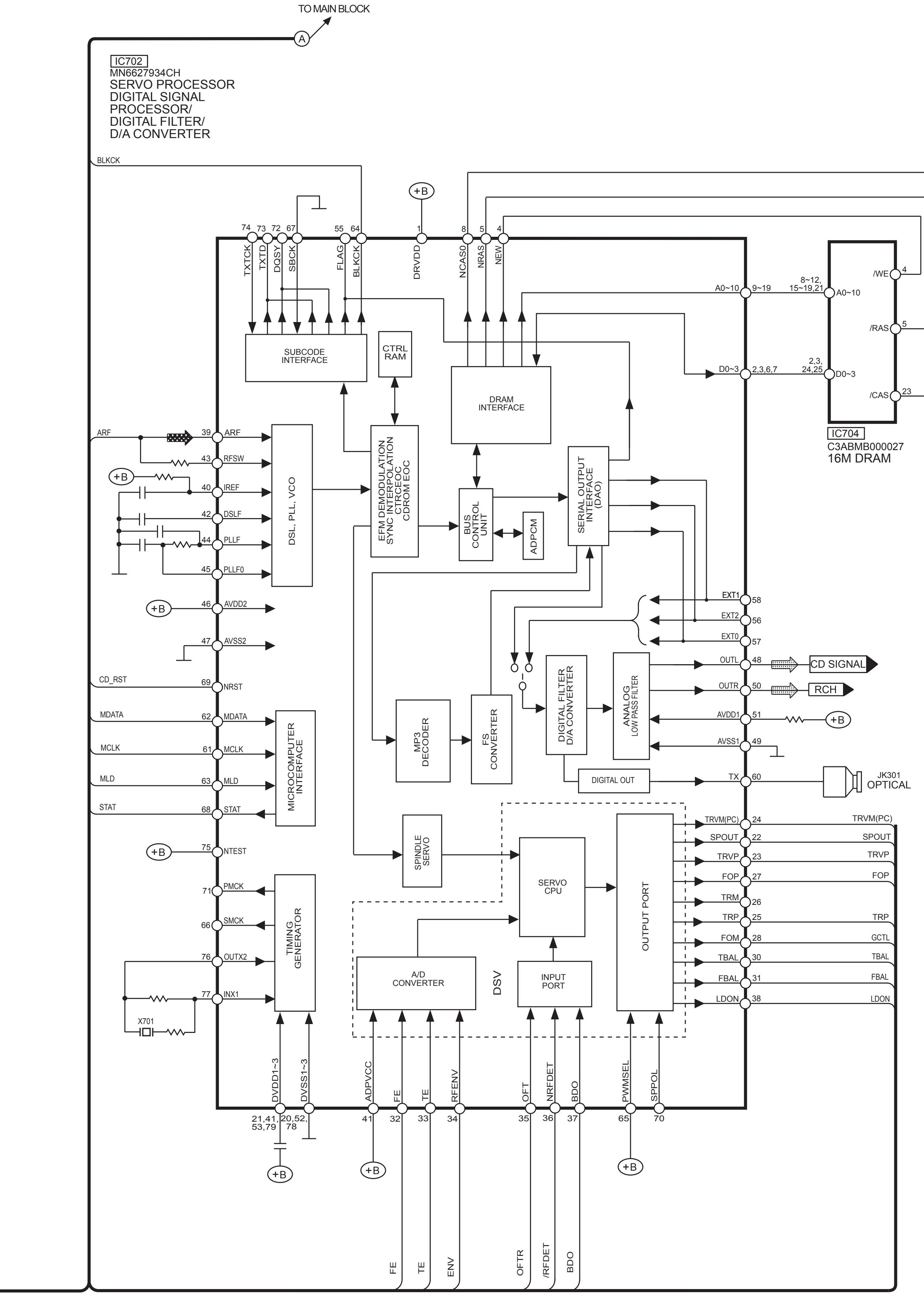

TO B
MAIN CIRCUIT (CN304) ON
SCHEMATIC DIAGRAM-4
CN1001
⑭ ⑬ ⑫ ⑪ ⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
PBL
PBR
AFGND
RECINL
RECINR
+B
REC_H
MO+B
MO GND
DMT
DECK1_H
BP1
MOTOR
Q1017
KTD1146YTA
MOTOR SWITCH
C1054 + 50V3.3
C1064 50V3.3
R1095 100K
R1098 10K
R1091 2.2K
R1094 1K
R1057 2.2K
R1097 10K
R1060 390
Q1020
R1092 2.2K
R1049 1M
C1051 50V1
C1048 50V1
R1096 100K
R1093 1K
Q1014
R1053 680
R1056 220
R1058 2.7K
Q1020-Q1021
KTD1304TA
MUTING SWITCH
Q1021
C1049 1000P
R1051 220
Q1017
W1002
M
R1084 2.2K
R1054 680
C1053 16V220
R1047 1K
Q1012
R1045 100K
R1050 1M
R1086 2.2K
R1048 1K
C1052 50V1
Q1015
Q1016
R1046 100K
C1047 50V1
C1050 1000P
R1052 220
R1087 47K
R1085 47K
R1061 0
Q1013
Q1012-Q1013
KTD1304TA
MUTING
Q1014-Q1015
B1ABCF000011
BUFFER AMP
C1055 50V0.1
R1059 10K
Q1016
B1GDCFJJ0023
DECK MUTING SWITCH

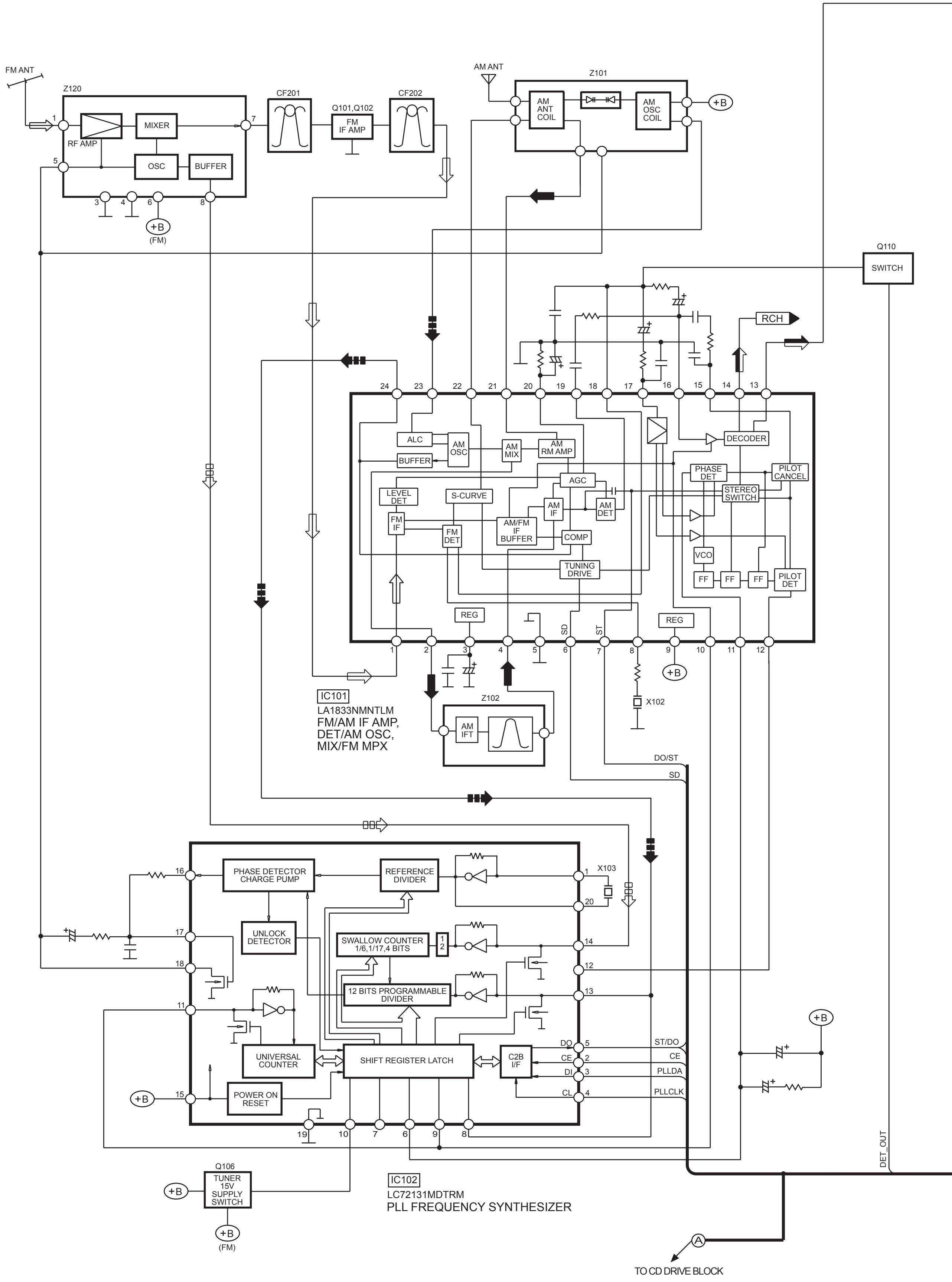
K DECK MECHANISM CIRCUIT

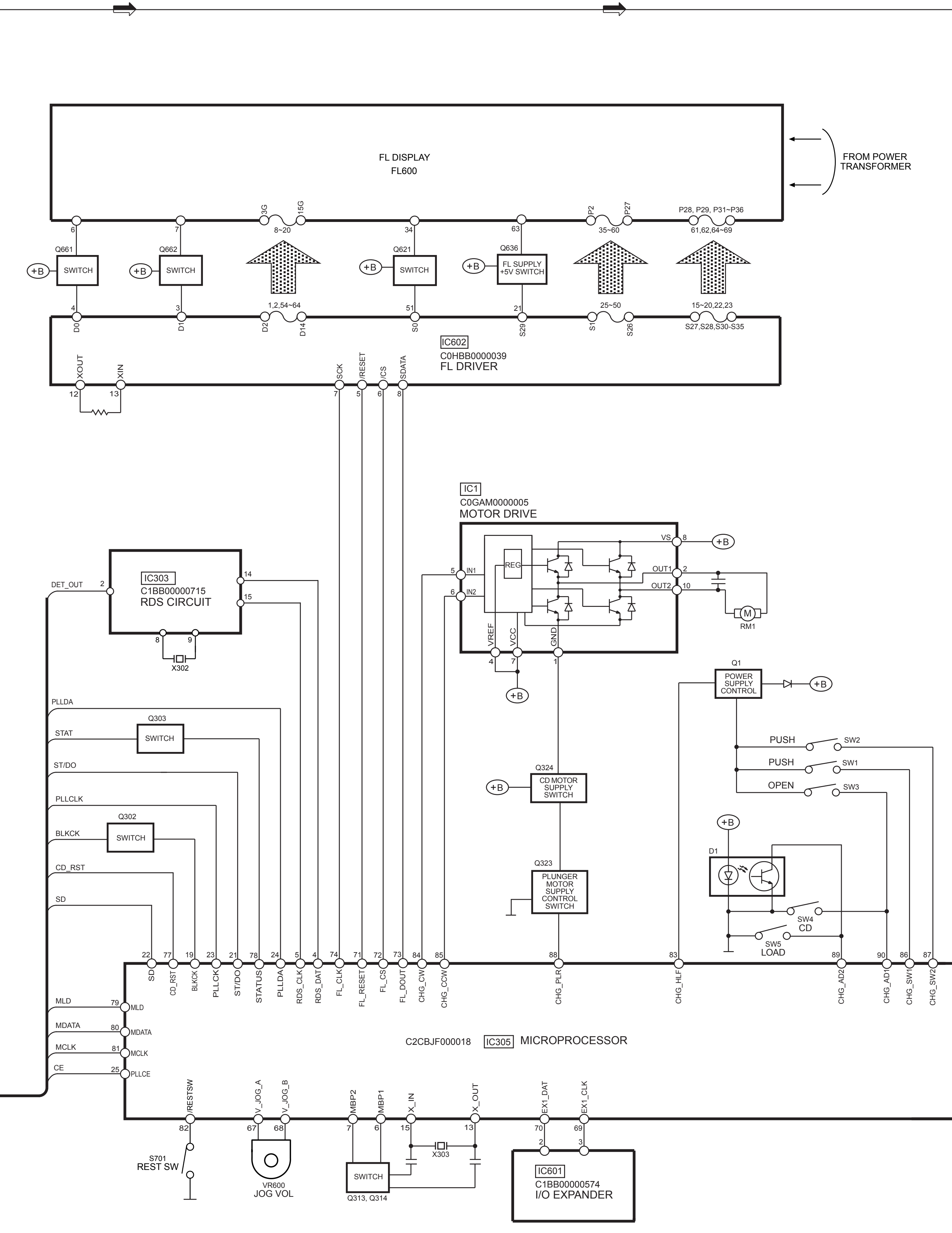

IC971
CNB13030R2AU
PHOTO INTERRUPTER
D971
MA2C16500E
R972 820
R973 39K
PL970
MODE
D1_CRO2
PL
GND
PHOTO_T
HALF
STBY_5V
VREF_GND
PHOTO_S
HALF
S972
MODE
S971
RECINH_F
S975
⑦ ⑥ ⑤ ④ ③ ② ①
VREF_GND
HALF
RECINH_R
MODE
RECINH_F
AD_OUT
STBY_5V
Z971
RGSD12A1445T
PL2 ①
PL1 ②
STBY_5V ③
PL_GND ④
AD_OUT ⑤
PHOTO_PB ⑥
PHOTO_RP ⑦
HALF_PB ⑧
VREF_GND ⑨
MODE_PB ⑩
CN971
TO C
PANEL
CIRCUIT
(CP600) ON
SCHEMATIC
DIAGRAM-10
IC951
CNB13030R2AU
PHOTO INTERRUPTER
D951
MA2C16500E
R952 820
R953 39K
PL971
MODE
D1_CRO2
PL
GND
PHOTO_T
HALF
STBY_5V
VREF_GND
S952
HALF
MODE
S951

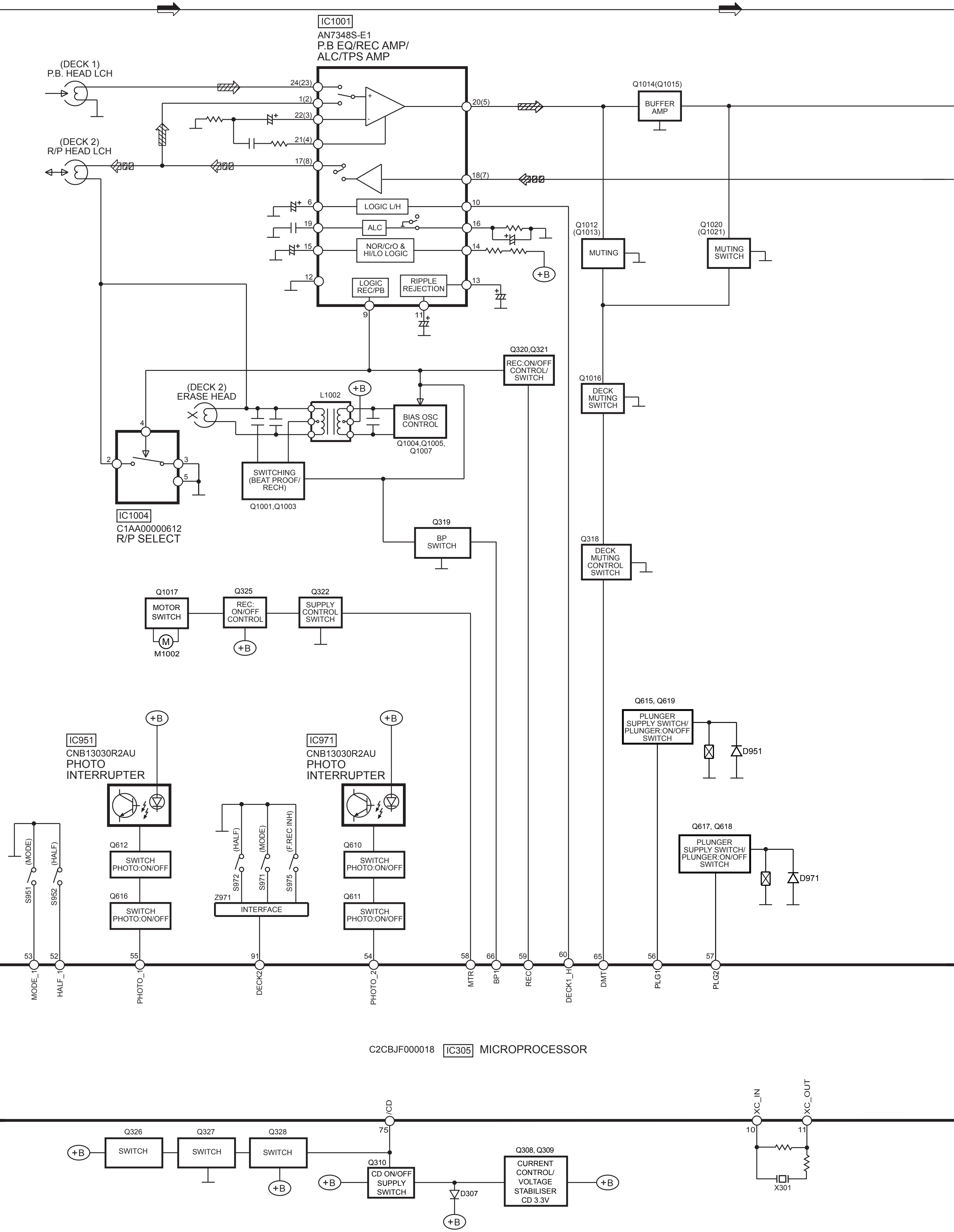

AUX
OPTICAL
FM ANT
AM ANT
PbF
JK300
JK301
JK101
Z120
Z101
CN300
B MAIN/TUNER P.C.B
SOLDER SIDE
L TUNER PACK P.C.B
Z102
CN306
CN305
BLACK
RED
FAN MOTOR
CN309
CN310
CN301
CN304
CN302
CN303
H CD LOADING P.C.B
SOLDER SIDE
SOLDER SIDE
F CD DETECT P.C.B
SOLDER SIDE
W2
CN1
W1
G SPINDLE POSITION P.C.B
SOLDER SIDE
H950/W950
CN501
CN500
I POWER (1) P.C.B
SOLDER SIDE
JK952
JK951
LEFT SPEAKERS
RIGHT SPEAKERS
HEADPHONE
JK601
SENSOR
D TACT SWITCH P.C.B
SOLDER SIDE
C PANEL P.C.B
SOLDER SIDE
CN900
CP900
VR600
VOLUME
CP600
CP602
CP601
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT TOUCH THIS P.C.B
T951 (SUB-TRANSFORMER)
H952
E TRANSFORMER P.C.B
COMPONENT SIDE
T950 (POWER TRANSFORMER)
L950
JK950
AC IN
230-240V 50HZ
RL950
CN950
CN951
H501/W501
M POWER (2) P.C.B
COMPONENT SIDE
MOTOR
CN971
K DECK MECHANISM P.C.B
SOLDER SIDE
W1002
CN1001
J DECK P.C.B
SOLDER SIDE
CS1002
CS1001
(DECK 2) R/P HEAD, ERASE HEAD
(DECK 1) PLAYBACK HEAD
A CD SERVO P.C.B (SIDE: A)
SOLDER SIDE
CN702
CN701
OPTICAL PICKUP
TREVERSE MOTOR M701
M
SPINDLE MOTOR M702

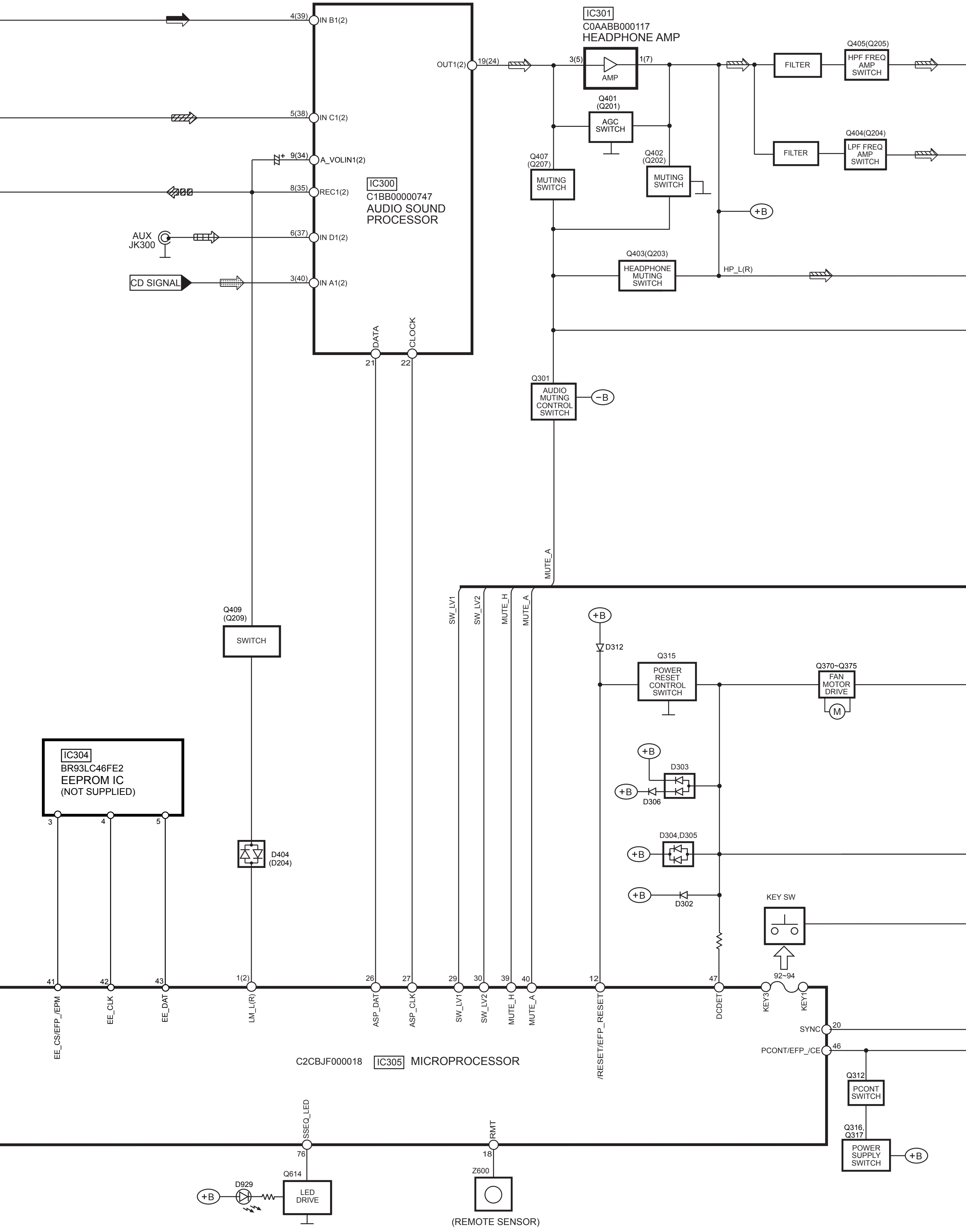

OPTICAL PICKUP
SEMICONDUCTOR LASER
PHOTO DETECTOR
A
B
F
E
+B
Q701
LASER POWER DRIVE
IC701
AN22004A-NF
SERVO AMP
LPD
LD
A
C
B
D
F
E
LDON
RFOUT
RFIN
CAGC
ARF
EQSW
EQBST
BDO
DCDET
AGC
RFEQ
RFAMP
AMP
GCA
BCA
SUB
BandGap
BDO/OFTR
OFTR
OFTCONT
3TENV
CEA
(ENV) 3TOUT
NRFDET
/RFDET
FEN
FEOUT
TEN
TEOUT
VREF
GCTL
TBAL
FBAL
GND
BDO
OFTR
ENV
/RFDET
FE
TE
IC703
AN8739SBTE2
FOCUS COIL/TRACKING COIL/
TRAVERSE MOTOR/
SPRINDLE MOTOR DRIVE
/RST
RESET SIGNAL GENERATOR
FOCUS COIL DRIVE
TRACKING COIL DRIVE
TRAVERSE MOTOR DRIVE
SPINDLE MOTOR DRIVE
MUTE [CH2]
D4+
D4-
NC
D3+
D3-
D1+
D1-
D2+
D2-
IN4
IN3
IN1
NC
IN2
NC
PC2
FOCUS COIL
F-
F+
TRACKING COIL
T-
T+
M701 TRAVERSE MOTOR
M702 SPINDLE MOTOR
M
FOP
TRP
TRVP
SPOUT
TRVM(PC)

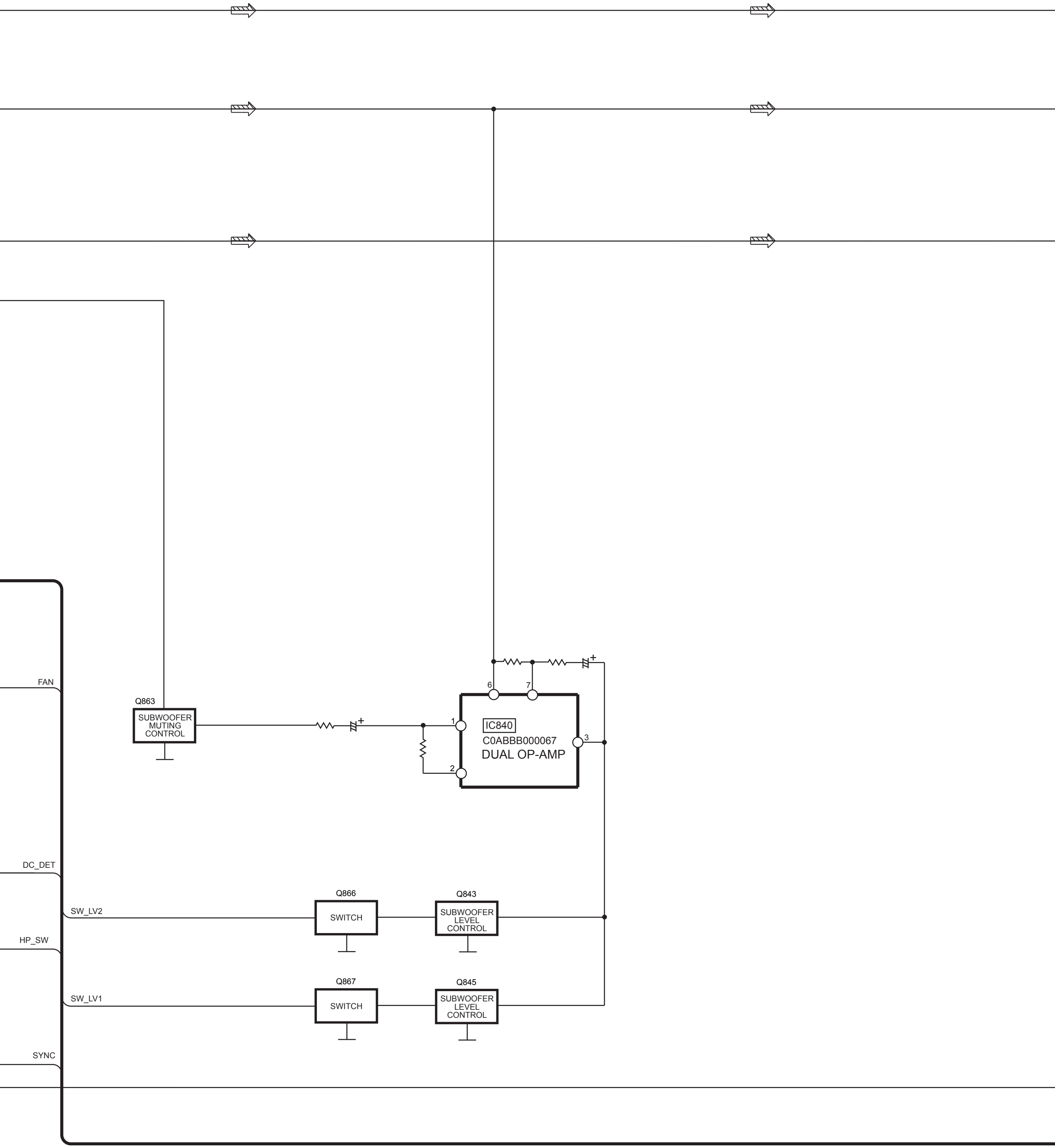

TO MAIN BLOCK
A
IC702
MN6627934CH
SERVO PROCESSOR
DIGITAL SIGNAL
PROCESSOR/
DIGITAL FILTER/
D/A CONVERTER
BLKCK
+B
74 73 72 67 55 64 1 8 5 4
TXTCK
TXTD
DQSY
SBCK
FLAG
BLKCK
DRVDD
NCAS0
NRAS
NEW
SUBCODE INTERFACE
CTRL RAM
DRAM INTERFACE
A0~10
9~19
8~12, 15~19,21
A0~10
/WE 4
/RAS 5
D0~3
2,3,6,7
2,3, 24,25
D0~3
/CAS 23
IC704
C3ABMB000027
16M DRAM
ARF
39 ARF
43 RFSW
40 IREF
42 DSLF
44 PLLF
45 PLLF0
DSL, PLL, VCO
EFM DEMODULATION SYNC INTERPOLATION CTRCEOC CDROM EOC
BUS CONTROL UNIT
ADPCM
SERIAL OUTPUT INTERFACE (DAO)
46 AVDD2
47 AVSS2
CD_RST
69 NRST
MDATA
62 MDATA
MCLK
61 MCLK
MLD
63 MLD
STAT
68 STAT
MICROCOMPUTER INTERFACE
75 NTEST
71 PMCK
66 SMCK
76 OUTX2
77 INX1
X701
TIMING GENERATOR
EXT1 58
EXT2 56
EXT0 57
OUTL 48
CD SIGNAL
OUTR 50
RCH
AVDD1 51
AVSS1 49
MP3 DECODER
FS CONVERTER
DIGITAL FILTER D/A CONVERTER
ANALOG LOW PASS FILTER
DIGITAL OUT
TX 60
JK301
OPTICAL
SPINDLE SERVO
SERVO CPU
OUTPUT PORT
A/D CONVERTER
DSV
INPUT PORT
TRVM(PC) 24 TRVM(PC)
SPOUT 22 SPOUT
TRVP 23 TRVP
FOP 27 FOP
TRM 26
TRP 25 TRP
FOM 28 GCTL
TBAL 30 TBAL
FBAL 31 FBAL
LDON 38 LDON
DVDD1~3
DVSS1~3
ADPVCC
FE
TE
RFENV
OFT
NRFDET
BDO
PWMSEL
SPPOL
21,41, 53,79
20,52, 78
41 32 33 34 35 36 37 65 70
FE
TE
ENV
OFTR
/RFDET
BDO

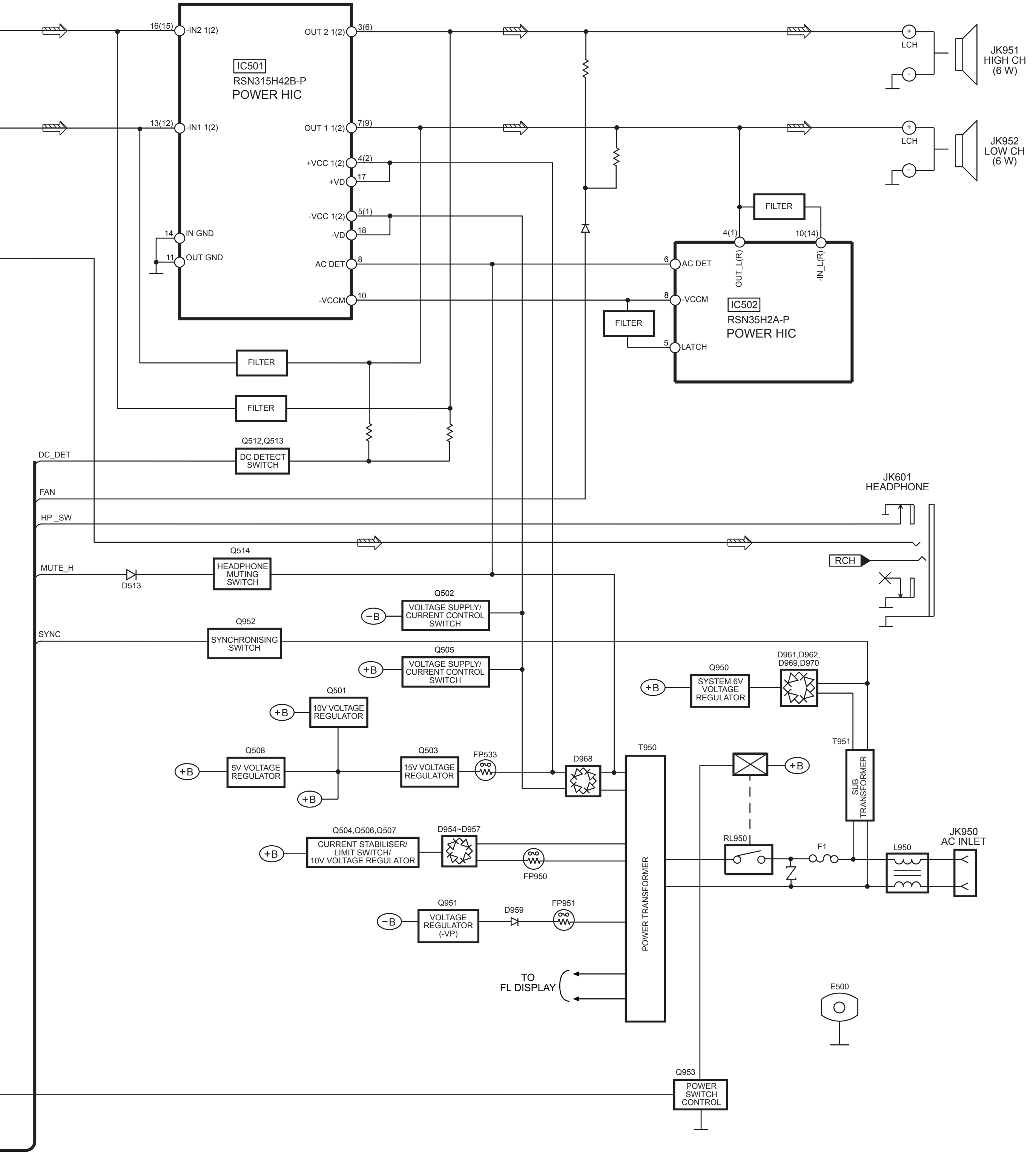

FM ANT
Z120
RF AMP
MIXER
OSC
BUFFER
+B
(FM)
CF201
Q101,Q102
FM
IF AMP
CF202
AM ANT
Z101
AM
ANT
COIL
AM
OSC
COIL
+B
Q110
SWITCH
RCH
ALC
AM
OSC
BUFFER
AM
MIX
AM
RM AMP
AGC
LEVEL
DET
S-CURVE
FM
IF
FM
DET
AM/FM
IF
BUFFER
AM
IF
AM
DET
COMP
TUNING
DRIVE
DECODER
PHASE
DET
PILOT
CANCEL
STEREO
SWITCH
VCO
FF
FF
FF
PILOT
DET
REG
REG
SD
ST
+B
X102
IC101
LA1833NMNTLM
FM/AM IF AMP,
DET/AM OSC,
MIX/FM MPX
Z102
AM
IFT
DO/ST
SD
PHASE DETECTOR
CHARGE PUMP
REFERENCE
DIVIDER
X103
UNLOCK
DETECTOR
SWALLOW COUNTER
1/6,1/17,4 BITS
1
2
12 BITS PROGRAMMABLE
DIVIDER
UNIVERSAL
COUNTER
SHIFT REGISTER LATCH
C2B
I/F
POWER ON
RESET
+B
DO
CE
DI
CL
ST/DO
CE
PLLDA
PLLCLK
+B
DET_OUT
Q106
TUNER
15V
SUPPLY
SWITCH
+B
+B
(FM)
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
A
TO CD DRIVE BLOCK


FL DISPLAY
FL600
FROM POWER TRANSFORMER
3G
15G
8~20
P2
P27
35~60
P28, P29, P31~P36
61,62,64~69
Q661
SWITCH
Q662
SWITCH
Q621
SWITCH
Q636
FL SUPPLY +5V SWITCH
+B
1,2,54~64
25~50
15~20,22,23
S27,S28,S30-S35
D0
D1
D2
D14
S0
S29
S1
S26
IC602
C0HBB0000039
FL DRIVER
XOUT
XIN
SCK
/RESET
/CS
SDATA
IC1
C0GAM0000005
MOTOR DRIVE
IN1
IN2
REG
VS
OUT1
OUT2
VREF
VCC
GND
RM1
IC303
C1BB00000715
RDS CIRCUIT
DET_OUT
X302
PLLDA
Q303
SWITCH
STAT
ST/DO
PLLCLK
Q302
SWITCH
BLKCK
CD_RST
SD
Q324
CD MOTOR SUPPLY SWITCH
Q323
PLUNGER MOTOR SUPPLY CONTROL SWITCH
Q1
POWER SUPPLY CONTROL
PUSH
SW2
PUSH
SW1
OPEN
SW3
D1
SW4
CD
SW5
LOAD
SD
CD_RST
BLKCK
PLLCK
ST/DO
STATUS
PLLDA
RDS_CLK
RDS_DAT
FL_CLK
FL_RESET
FL_CS
FL_DOUT
CHG_CW
CHG_CCW
CHG_PLR
CHG_HLF
CHG_AD2
CHG_AD1
CHG_SW1
CHG_SW2
MLD
MDATA
MCLK
CE
PLLCE
C2CBJF000018
IC305
MICROPROCESSOR
/RESTSW
V_JOG_A
V_JOG_B
MBP2
MBP1
X_IN
X_OUT
EX1_DAT
EX1_CLK
S701
REST SW
VR600
JOG VOL
SWITCH
Q313, Q314
X303
IC601
C1BB00000574
I/O EXPANDER


IC1001
AN7348S-E1
P.B EQ/REC AMP/
ALC/TPS AMP
(DECK 1)
P.B. HEAD LCH
(DECK 2)
R/P HEAD LCH
24(23)
1(2)
22(3)
21(4)
17(8)
20(5)
18(7)
6
19
15
12
10
16
14
13
9
11
LOGIC L/H
ALC
NOR/CrO &
HI/LO LOGIC
LOGIC
REC/PB
RIPPLE
REJECTION
+B
Q1014(Q1015)
BUFFER
AMP
Q1012
(Q1013)
MUTING
Q1020
(Q1021)
MUTING
SWITCH
Q320,Q321
REC:ON/OFF
CONTROL/
SWITCH
Q1016
DECK
MUTING
SWITCH
(DECK 2)
ERASE HEAD
L1002
+B
BIAS OSC
CONTROL
Q1004,Q1005,
Q1007
SWITCHING
(BEAT PROOF/
RECH)
Q1001,Q1003
4
2
3
5
IC1004
C1AA00000612
R/P SELECT
Q319
BP
SWITCH
Q318
DECK
MUTING
CONTROL
SWITCH
Q1017
MOTOR
SWITCH
M
M1002
Q325
REC:
ON/OFF
CONTROL
+B
Q322
SUPPLY
CONTROL
SWITCH
Q615, Q619
PLUNGER
SUPPLY SWITCH/
PLUNGER:ON/OFF
SWITCH
D951
Q617, Q618
PLUNGER
SUPPLY SWITCH/
PLUNGER:ON/OFF
SWITCH
D971
+B
IC951
CNB13030R2AU
PHOTO
INTERRUPTER
+B
IC971
CNB13030R2AU
PHOTO
INTERRUPTER
(MODE)
S951
(HALF)
S952
Q612
SWITCH
PHOTO:ON/OFF
Q616
SWITCH
PHOTO:ON/OFF
(HALF)
S972
(MODE)
S971
(F.REC INH)
S975
Z971
INTERFACE
Q610
SWITCH
PHOTO:ON/OFF
Q611
SWITCH
PHOTO:ON/OFF
53
MODE_1
52
HALF_1
55
PHOTO_1
91
DECK2
54
PHOTO_2
58
MTR
66
BP1
59
REC
60
DECK1_H
65
DMT
56
PLG1
57
PLG2
C2CBJF000018
IC305
MICROPROCESSOR
/CD
75
XC_IN
10
XC_OUT
11
X301
Q326
SWITCH
+B
Q327
SWITCH
Q328
SWITCH
+B
Q310
CD ON/OFF
SUPPLY
SWITCH
+B
D307
+B
Q308, Q309
CURRENT
CONTROL/
VOLTAGE
STABILISER
CD 3.3V
+B


IC300
C1BB00000747
AUDIO SOUND PROCESSOR
4(39) IN B1(2)
5(38) IN C1(2)
9(34) A_VOLIN1(2)
8(35) REC1(2)
6(37) IN D1(2)
3(40) IN A1(2)
OUT1(2) 19(24)
DATA 21
CLOCK 22
AUX JK300
CD SIGNAL
IC301
C0AABB000117
HEADPHONE AMP
3(5) AMP 1(7)
Q401 (Q201) AGC SWITCH
Q407 (Q207) MUTING SWITCH
Q402 (Q202) MUTING SWITCH
FILTER
Q405(Q205) HPF FREQ AMP SWITCH
FILTER
Q404(Q204) LPF FREQ AMP SWITCH
+B
Q403(Q203) HEADPHONE MUTING SWITCH
HP_L(R)
Q301 AUDIO MUTING CONTROL SWITCH
−B
MUTE_A
SW_LV1
SW_LV2
MUTE_H
MUTE_A
Q409 (Q209) SWITCH
D404 (D204)
IC304
BR93LC46FE2
EEPROM IC
(NOT SUPPLIED)
3
4
5
+B
D312
Q315 POWER RESET CONTROL SWITCH
Q370~Q375 FAN MOTOR DRIVE
M
+B
D303
+B
D306
D304,D305
+B
+B
D302
KEY SW
92~94
41 EE_CS/EFP_/EPM
42 EE_CLK
43 EE_DAT
1(2) LM_L(R)
26 ASP_DAT
27 ASP_CLK
29 SW_LV1
30 SW_LV2
39 MUTE_H
40 MUTE_A
12 /RESET/EFP_RESET
47 DCDET
KEY3
KEY1
SYNC 20
PCONT/EFP_/CE 46
C2CBJF000018
IC305
MICROPROCESSOR
Q312 PCONT SWITCH
Q316, Q317 POWER SUPPLY SWITCH
+B
SSEQ_LED 76
RMT 18
Q614 LED DRIVE
+B
D929
Z600
(REMOTE SENSOR)


FAN
Q863
SUBWOOFER MUTING CONTROL
IC840
C0ABBB000067
DUAL OP-AMP
1
2
3
6
7
DC_DET
SW_LV2
Q866
SWITCH
Q843
SUBWOOFER LEVEL CONTROL
HP_SW
SW_LV1
Q867
SWITCH
Q845
SUBWOOFER LEVEL CONTROL
SYNC


IC501
RSN315H42B-P
POWER HIC
16(15) -IN2 1(2)
13(12) -IN1 1(2)
14 IN GND
11 OUT GND
OUT 2 1(2) 3(6)
OUT 1 1(2) 7(9)
+VCC 1(2) 4(2)
+VD 17
-VCC 1(2) 5(1)
-VD 18
AC DET 8
-VCCM 10
JK951
HIGH CH
(6 W)
JK952
LOW CH
(6 W)
LCH
FILTER
4(1)
10(14)
OUT_L(R)
-IN_L(R)
6 AC DET
8 -VCCM
5 LATCH
IC502
RSN35H2A-P
POWER HIC
Q512,Q513
DC DETECT SWITCH
DC_DET
FAN
HP _SW
MUTE_H
SYNC
JK601
HEADPHONE
RCH
Q514
HEADPHONE MUTING SWITCH
D513
Q502
VOLTAGE SUPPLY/ CURRENT CONTROL SWITCH
Q505
VOLTAGE SUPPLY/ CURRENT CONTROL SWITCH
Q952
SYNCHRONISING SWITCH
Q501
10V VOLTAGE REGULATOR
Q508
5V VOLTAGE REGULATOR
Q503
15V VOLTAGE REGULATOR
FP533
D968
T950
Q950
SYSTEM 6V VOLTAGE REGULATOR
D961,D962, D969,D970
T951
SUB TRANSFORMER
Q504,Q506,Q507
CURRENT STABILISER/ LIMIT SWITCH/ 10V VOLTAGE REGULATOR
D954~D957
FP950
RL950
F1
L950
JK950
AC INLET
Q951
VOLTAGE REGULATOR (-VP)
D959
FP951
POWER TRANSFORMER
TO FL DISPLAY
E500
Q953
POWER SWITCH CONTROL
+B
−B

SIGNAL LINES

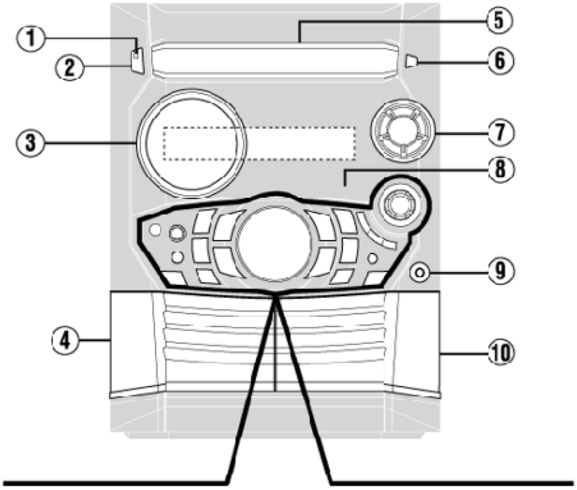
⇨	MAIN SIGNAL LINE	⇨	CD SIGNAL LINE	➡	AM SIGNAL LINE	⇨	PLAYBACK SIGNAL LINE
▯▯⇨	FM OSC SIGNAL LINE	■■➡	AM OSC SIGNAL LINE	➡	FM & AM SIGNALS LINE	▨▨⇨	RECORDING SIGNAL LINE
⇨	FM SIGNAL LINE	⇨	AUX SIGNAL LINE	➡	CD-DA SIGNAL LINE		

( ) Indicates the Pin No. of Right Channel

NOTE : Signal Lines are applicable to the Left Channel only

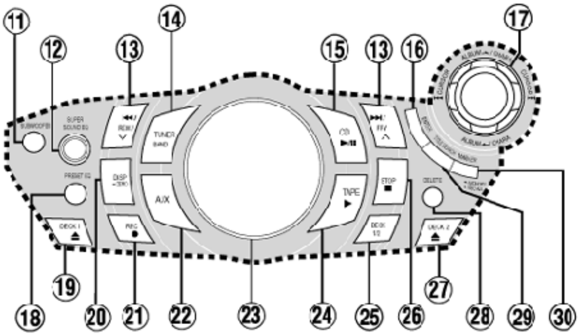
Front panel controls

Main unit


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

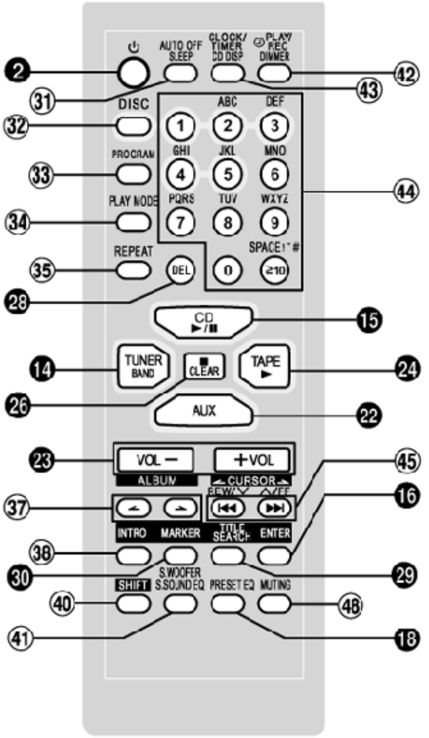
- ① **AC supply indicator [AC IN]**
  This indicator lights when the unit is connected to the AC mains supply.
- ② **Standby/on switch [⏻/I]**
  Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ③ **Display**
- ④ **Deck 1 cassette holder**
- ⑤ **Disc tray**
- ⑥ **CD tray open/close button [⏏, OPEN/CLOSE]**
- ⑦ **CD direct play buttons [1 ~ 5]**
- ⑧ **Remote control signal sensor**
- ⑨ **Headphones jack [PHONES]**
- ⑩ **Deck 2 cassette holder**

Center console


⑪
⑫
⑬
⑭
⑮
⑬
⑯
⑰
SUBWOOFER
SUPER SOUND EQ
TUNER BAND
CD ▶/II
PRESET EQ
DISP –DEMO
AUX
TAPE ▶
STOP ■
DELETE
DECK 1 ⏏
REC ●
DECK 1/2
DECK 2 ⏏
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
㉖
㉗
㉘
㉙
㉚

- ⑪ **Subwoofer button [SUBWOOFER]**
- ⑫ **Super sound EQ button [SUPER SOUND EQ]**
- ⑬ **CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons [I◀◀/REW/∨, ▶▶I/FF/∧]**
- ⑭ **Tuner/band select button [TUNER, BAND]**
- ⑮ **CD play/pause button [▶/II, CD]**
- ⑯ **Enter button [ENTER]**
- ⑰ **Joystick**
- ⑱ **Preset EQ select button [PRESET EQ]**
- ⑲ **Deck 1 open button [⏏, DECK 1]**
- ⑳ **Display, demonstration button [DISP, –DEMO]**
- ㉑ **Record button [●, REC]**
- ㉒ **AUX button [AUX]**
- ㉓ **Volume control [VOLUME DOWN, UP]**
- ㉔ **Tape play button [▶, TAPE]**
- ㉕ **Deck select button [DECK 1/2]**
- ㉖ **Stop/program clear button [■, STOP]**
- ㉗ **Deck 2 open button [⏏, DECK 2]**
- ㉘ **Delete button [DELETE]**
- ㉙ **Title search mode select button [TITLE SEARCH]**
- ㉚ **Marker memory/recall button [MARKER, –MEMORY, -RECALL]**

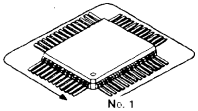
Remote control


❷
⏻
AUTO OFF SLEEP
CLOCK/TIMER CD DISP
⏲PLAY/REC DIMMER
㉛
㊷
㊸
DISC
㉜
ABC
DEF
1
2
3
PROGRAM
㉝
GHI
JKL
MNO
4
5
6
㊹
PLAY MODE
㉞
PQRS
TUV
WXYZ
7
8
9
SPACE!"#
REPEAT
㉟
DEL
0
≥10
㉘
CD ▶/II
⓯
TUNER BAND
⓮
■ CLEAR
TAPE ▶
㉔
㉖
AUX
㉒
VOL –
+VOL
㉓
ALBUM
CURSOR
REW/∨
∧/FF
㊺
⓰
㊲
INTRO
MARKER
TITLE SEARCH
ENTER
㊳
㉚
㉙
S.WOOFER S.SOUND EQ
SHIFT
PRESET EQ
MUTING
㊵
㊽
㊶
⓲

Buttons such as ❷ function in exactly the same way as the buttons on the main unit.

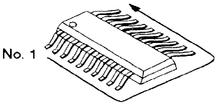
- ㉛ **Sleep timer + Auto off button [SLEEP, AUTO OFF]**
- ㉜ **Disc button [DISC]**
- ㉝ **Program button [PROGRAM]**
- ㉞ **Play mode select button [PLAY MODE]**
  Use this for selecting CD play mode, tune mode, FM mode, AM beat proof and deck select.
- ㉟ **Repeat button [REPEAT]**
- ㊲ **Album skip buttons [⏶, ⏷ , ALBUM]**
- ㊳ **Intro button [INTRO]**
- ㊵ **Shift button [SHIFT]**
  To use functions labelled in orange ※ :
  While pressing [SHIFT], press the corresponding button.
  ※ : For buttons [AUTO OFF], [CLOCK/TIMER], [⏲PLAY/REC] and [S.WOOFER]
- ㊶ **Super sound EQ + Subwoofer button [S.SOUND EQ, S.WOOFER]**
- ㊷ **Dimmer + Play timer/record timer button [DIMMER, ⏲PLAY/REC]**
- ㊸ **For Russia, Ukraine, Australia, New Zealand, South Africa and Middle East :**
  CD display + Clock/timer button
  [CD DISP, CLOCK/TIMER]
  For others:
  CD display/RDS display + Clock/timer button
  [CD/RDS DISP, CLOCK/TIMER]
- ㊹ **Numbered, character buttons [≥10, 1–9, 0, A-Z, SPACE!"#]**
- ㊺ **CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust, cursor buttons [I◀◀, REW/∨, ⏶ CURSOR, ▶▶I, ∧/FF, CURSOR ⏷]**
- ㊽ **Muting button [MUTING]**

MN6627934CH (80P)
C0HBB0000039 (64P)



AN7348S-E1 (24P)
AN22004A-NF (32P)
C1BB00000747 (42P)
C1BB00000715 (16P)
C3ABMB000027 (26P)
LA1833NMNTLM (24P)
LC72131MDTRM (20P)

C1BB00000574
C0ABBB000067



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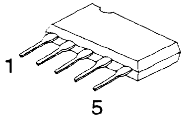

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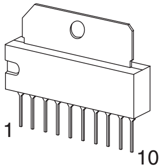

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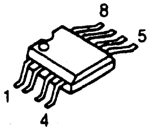

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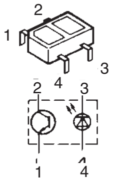

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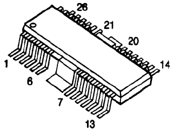
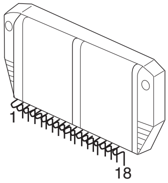

26
21
20
14
1
6
7
13

RSN315H42B-P



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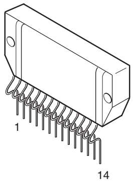

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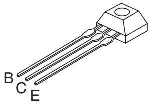
KRC103MTA



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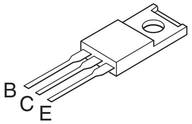
KTA1046



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C1GCCFJJ0015
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KTC3205YTA
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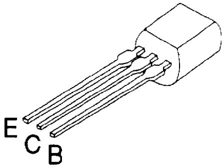

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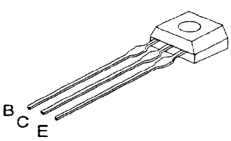

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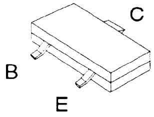
KTD1304TA
B1ADCF000001



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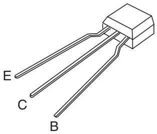

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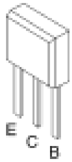

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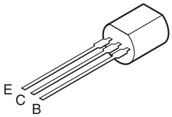

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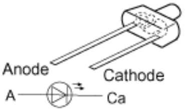
Anode
Cathode
A
Ca

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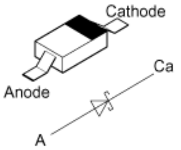
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Anode
A

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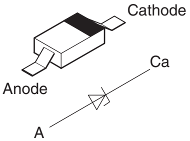
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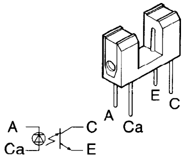
Ca
Anode
A

GP1S94


E
C
A
Ca
A
C
Ca
E

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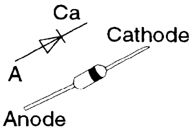
Ca
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A
Anode

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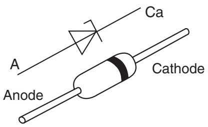
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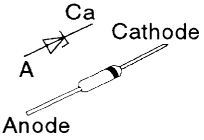
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Anode

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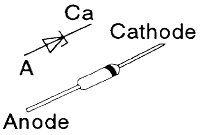
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Cathode
A
Anode

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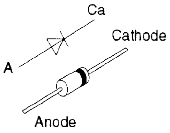
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A
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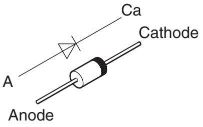
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Cathode
A
Anode

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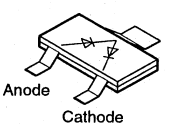
Anode
Cathode

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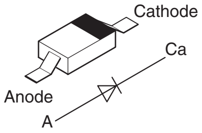
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Ca
Anode
A

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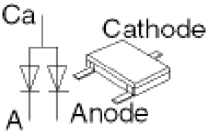
Ca
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A
Anode

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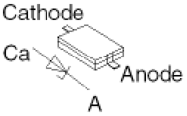
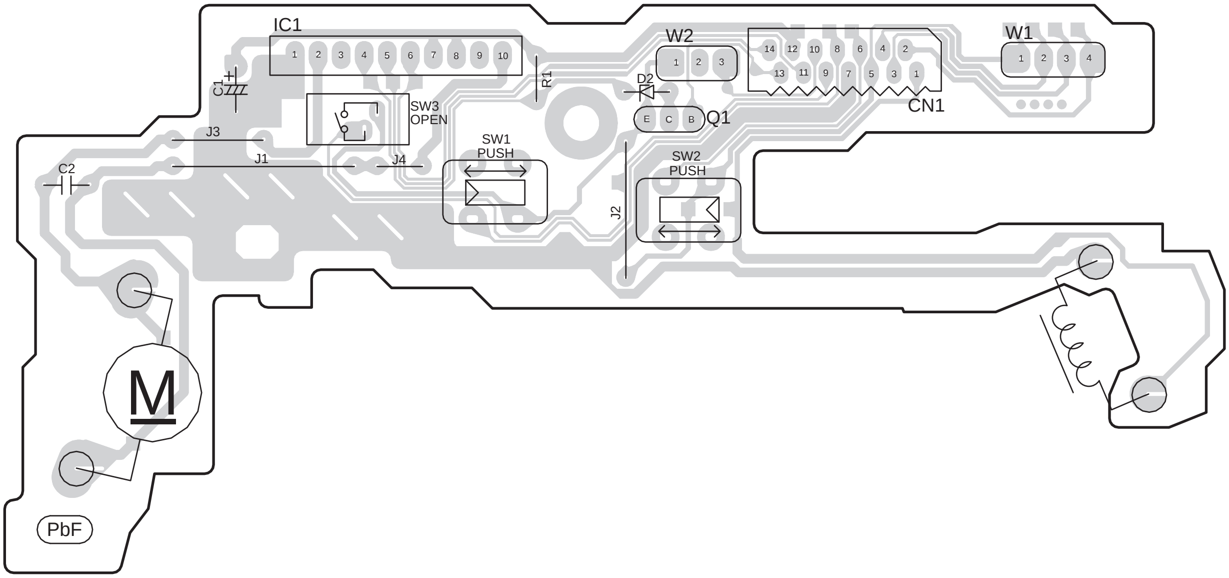

Cathode
Ca
Anode
A

A B C D E F G

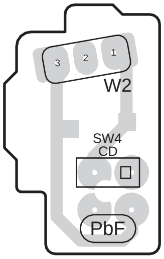
1 2 3 4 5 6 7 8 9

H CD LOADING P.C.B (REP2578A-N)



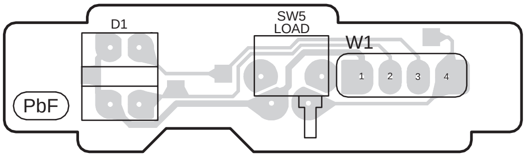
IC1
1 2 3 4 5 6 7 8 9 10
C1
R1
SW3
OPEN
J3
J1
J4
C2
SW1
PUSH
W2
1 2 3
D2
E C B
Q1
14 12 10 8 6 4 2
13 11 9 7 5 3 1
CN1
W1
1 2 3 4
SW2
PUSH
J2
M
PbF

F CD DETECT P.C.B
(REP2578A-N)



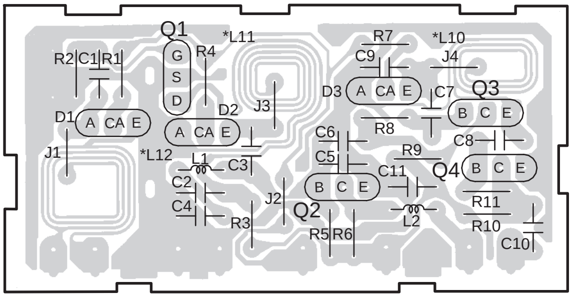
3 2 1
W2
SW4
CD
PbF

G SPINDLE POSITION P.C.B
(REP2578A-N)



D1
SW5
LOAD
W1
1 2 3 4
PbF

L TUNER PACK P.C.B (REP1999B)

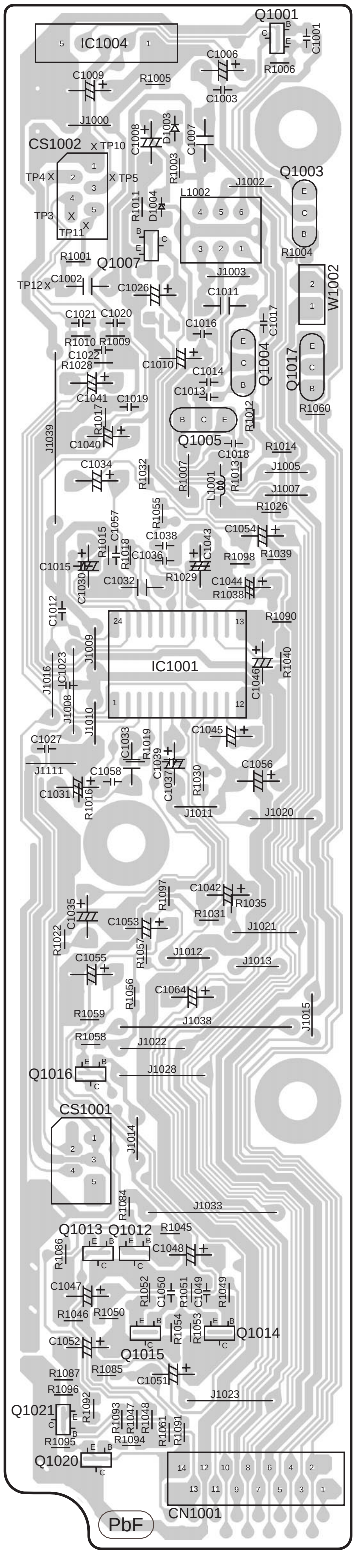


Q1
*L11
R7
*L10
R2
C1
R1
G
S
D
R4
C9
J4
D3
A CA E
C7
Q3
D1
A CA E
D2
A CA E
J3
B C E
R8
C6
C8
J1
*L12
L1
C3
C5
R9
C11
Q4
B C E
C2
C4
J2
B C E
Q2
R3
L2
R11
R5
R6
R10
C10

A B C D E F G

1 2 3 4 5 6 7 8 9

J DECK P.C.B. (REPX0331A)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Q1001
C1001
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R1006
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R1005
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J1000
C1008
D1003
C1007
CS1002
TP10
TP4
TP5
TP3
TP11
R1003
R1011
D1004
L1002
J1002
Q1003
R1001
Q1007
R1004
TP12
C1002
C1026
J1003
W1002
C1011
C1021
C1020
C1016
C1017
R1010
R1009
C1022
R1028
C1010
Q1004
Q1017
C1014
C1013
C1041
C1019
R1017
R1012
R1060
C1040
Q1005
R1014
J1039
C1018
C1034
R1032
R1007
R1013
J1005
L1001
J1007
R1055
R1026
C1057
C1038
C1043
C1054
R1015
R1018
C1036
R1098
R1039
C1015
C1030
C1032
R1029
C1044
R1038
C1012
R1090
IC1001
J1009
R1040
J1016
C1023
C1046
J1008
J1010
C1027
C1033
R1019
C1045
J1111
C1058
C1039
C1037
R1030
C1056
C1031
R1016
J1011
J1020
C1042
R1097
R1035
C1035
R1031
R1022
C1053
J1021
R1057
J1012
C1055
J1013
R1056
C1064
R1059
J1038
J1015
R1058
J1022
Q1016
J1028
CS1001
J1014
R1084
J1033
Q1013
Q1012
R1045
R1086
C1048
C1047
R1052
C1050
R1051
C1049
R1049
R1046
R1050
R1054
R1053
Q1014
C1052
Q1015
R1087
R1085
C1051
R1096
J1023
Q1021
R1092
R1093
R1047
R1048
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R1091
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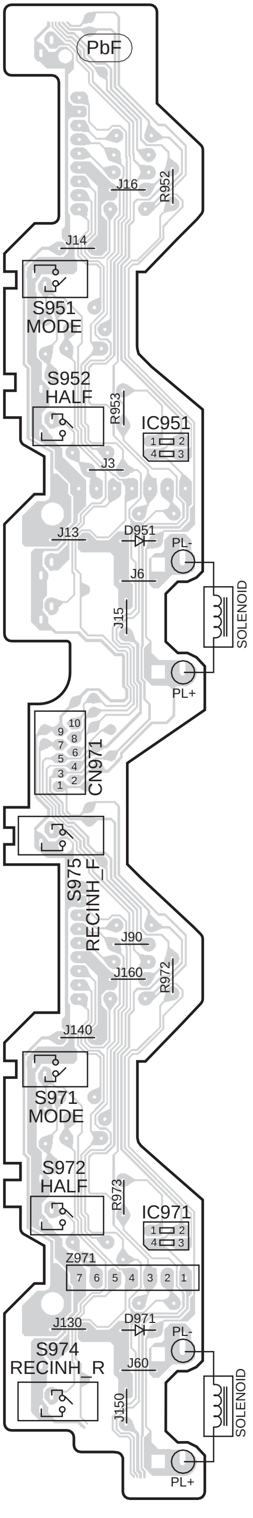
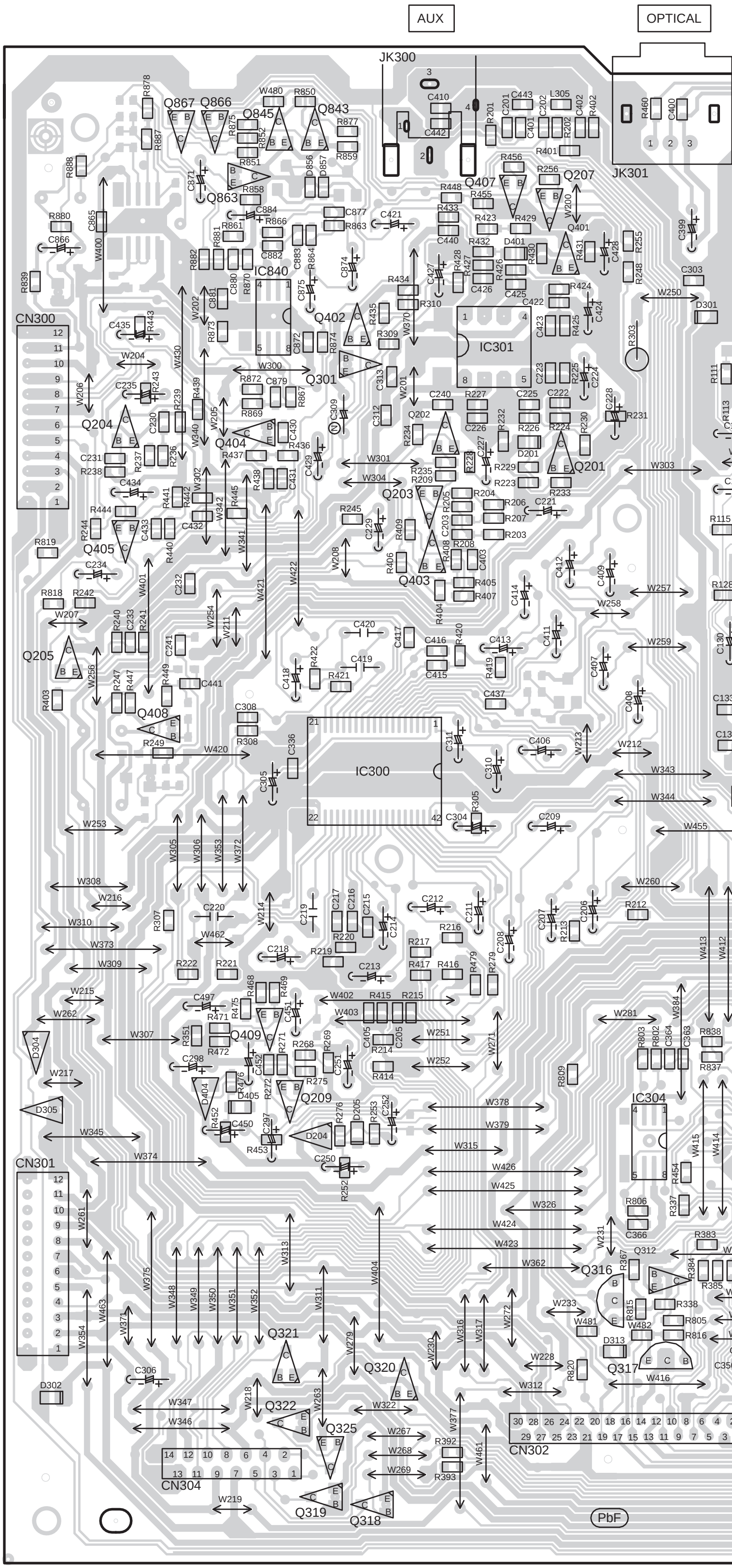
R1094
Q1020
CN1001
PbF

K DECK MECHANISM P.C.B. (REPX0321A)


PbF
J16
R952
J14
S951
MODE
S952
HALF
R953
IC951
J3
J13
D951
PL-
J6
J15
SOLENOID
PL+
CN971
S975
RECINH_F
J90
J160
R972
J140
S971
MODE
S972
HALF
R973
IC971
Z971
J130
D971
PL-
S974
RECINH_R
J60
J150
SOLENOID
PL+

B

MAIN / TUNER P.C.B
(REPX0422Q)


A
B
C
D
E
F
G
1
2
3
4
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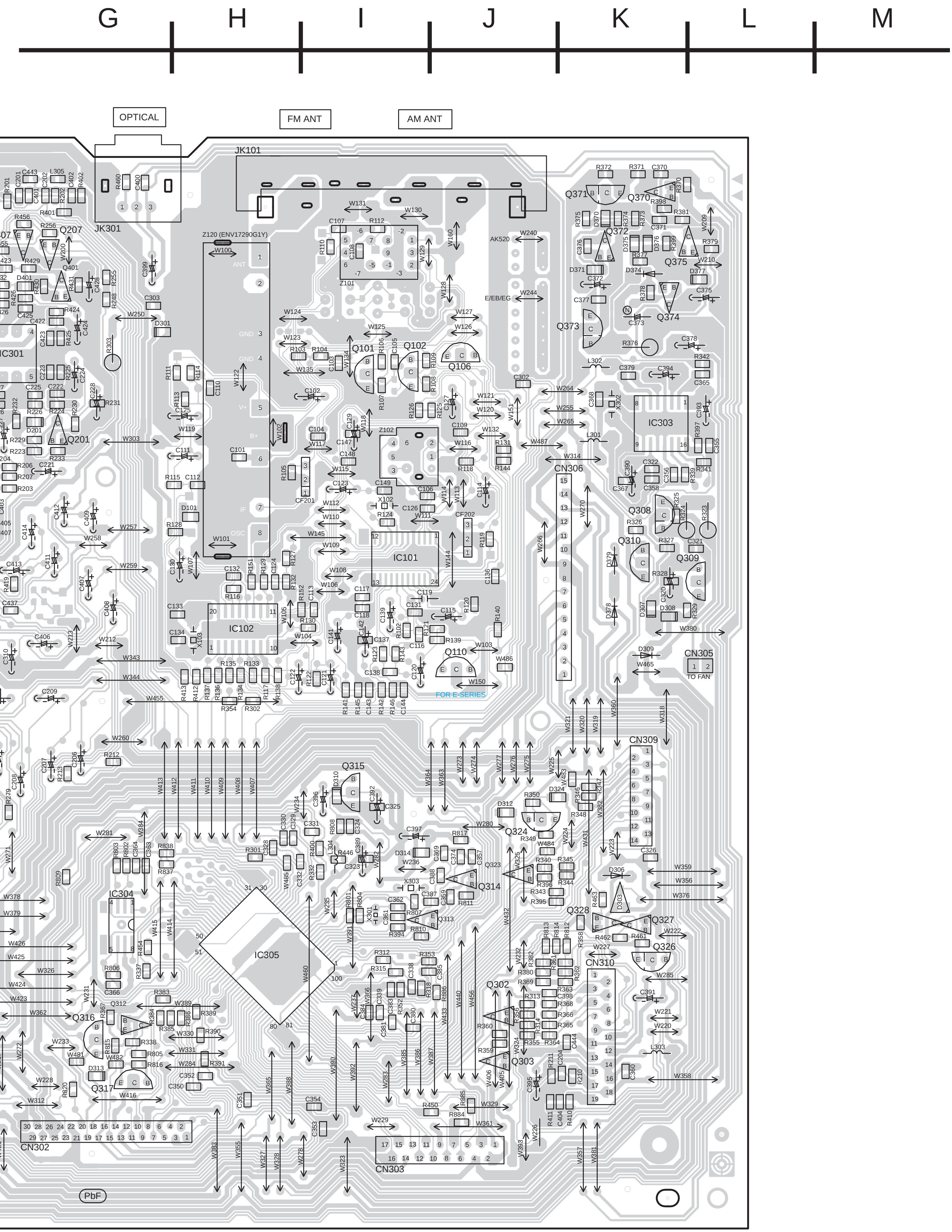
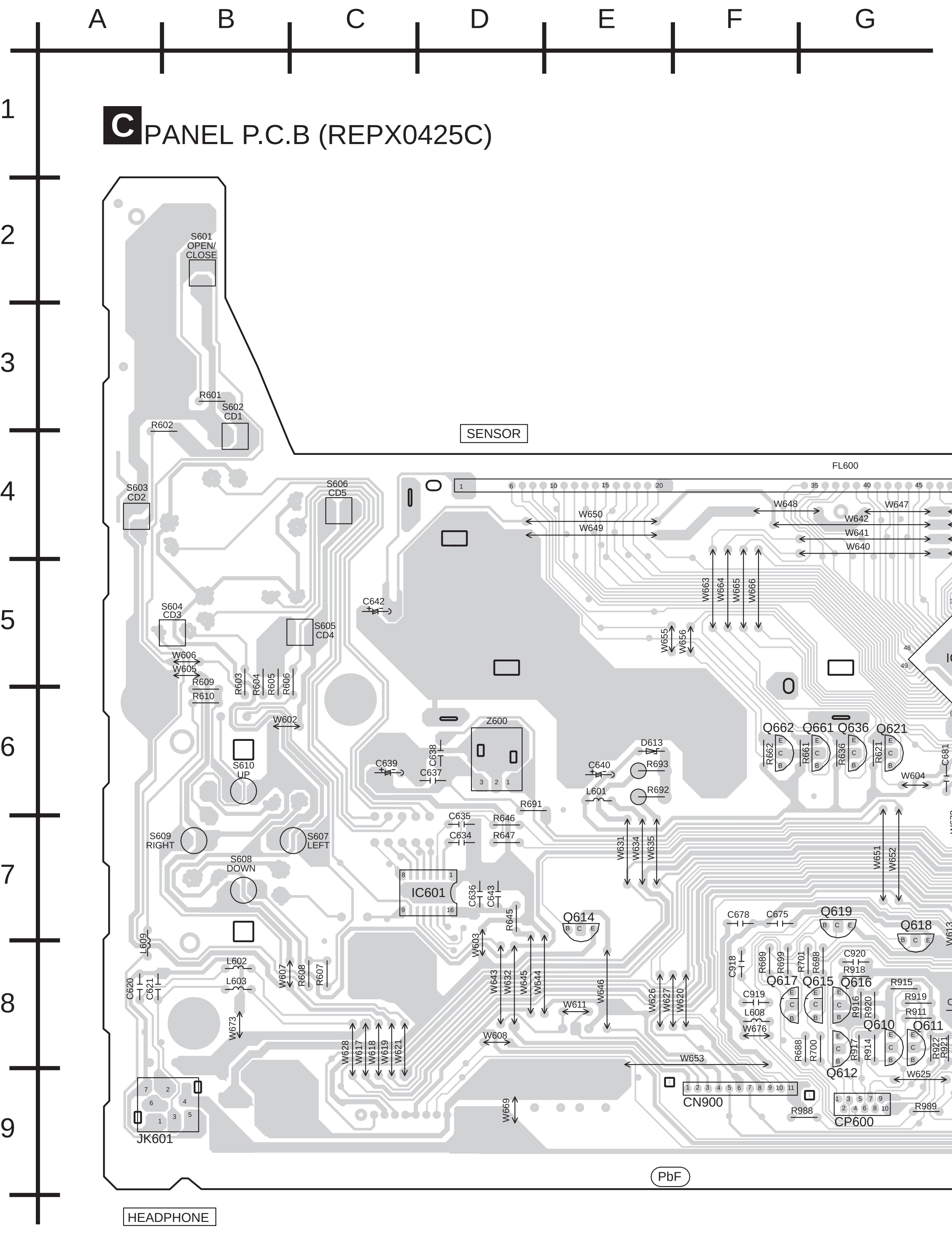
6
7
8
9
AUX
OPTICAL
JK300
JK301
CN300
CN301
CN302
CN304
IC300
IC301
IC304
IC840
Q201
Q202
Q203
Q204
Q205
Q207
Q209
Q301
Q312
Q316
Q317
Q318
Q319
Q320
Q321
Q322
Q325
Q401
Q402
Q403
Q404
Q405
Q407
Q408
Q409
Q843
Q845
Q863
Q866
Q867
D302
D304
D305
PbF


G
H
I
J
K
L
M
OPTICAL
FM ANT
AM ANT
JK101
JK301
Z120 (ENV17290G1Y)
ANT
GND
V+
B+
IF
OSC
AK520
E/EB/EG
Z101
Z102
IC101
IC102
IC301
IC303
IC304
IC305
Q101
Q102
Q106
Q110
Q201
Q207
Q302
Q303
Q308
Q309
Q310
Q312
Q313
Q314
Q315
Q316
Q317
Q323
Q324
Q326
Q327
Q328
Q370
Q371
Q372
Q373
Q374
Q375
CF201
CF202
X102
X103
X301
X302
X303
CN302
CN303
CN305
TO FAN
CN306
CN309
CN310
L301
L302
L303
L305
FOR E-SERIES
PbF

C PANEL P.C.B (REPX0425C)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
S601
OPEN/
CLOSE
R601
S602
CD1
R602
SENSOR
FL600
1
6
10
15
20
35
40
45
S603
CD2
S606
CD5
W650
W649
W648
W647
W642
W641
W640
W663
W664
W665
W666
S604
CD3
S605
CD4
C642
W655
W656
48
49
W606
W605
R609
R610
R603
R604
R605
R606
W602
Z600
3
2
1
C638
C639
C637
S610
UP
D613
C640
R693
L601
R692
Q662
Q661
Q636
Q621
R662
R661
R636
R621
C681
W604
E
C
B
R691
C635
R646
C634
R647
S609
RIGHT
S607
LEFT
W631
W634
W635
W651
W652
S608
DOWN
IC601
8
1
9
16
C636
C643
R645
Q614
C678
C675
Q619
Q618
W613
L609
W603
C918
R689
R699
R701
R698
C920
R918
L602
L603
W607
R608
R607
W643
W632
W645
W644
W646
W626
W627
W620
C919
Q617
Q615
Q616
R915
R916
R920
R919
R911
C620
C621
W673
W611
L608
W676
Q610
Q611
W608
W628
W617
W618
W619
W621
R688
R700
R917
R914
R922
R921
W653
Q612
W625
7
2
6
4
1
3
5
JK601
W669
CN900
1
2
3
4
5
6
7
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CP600
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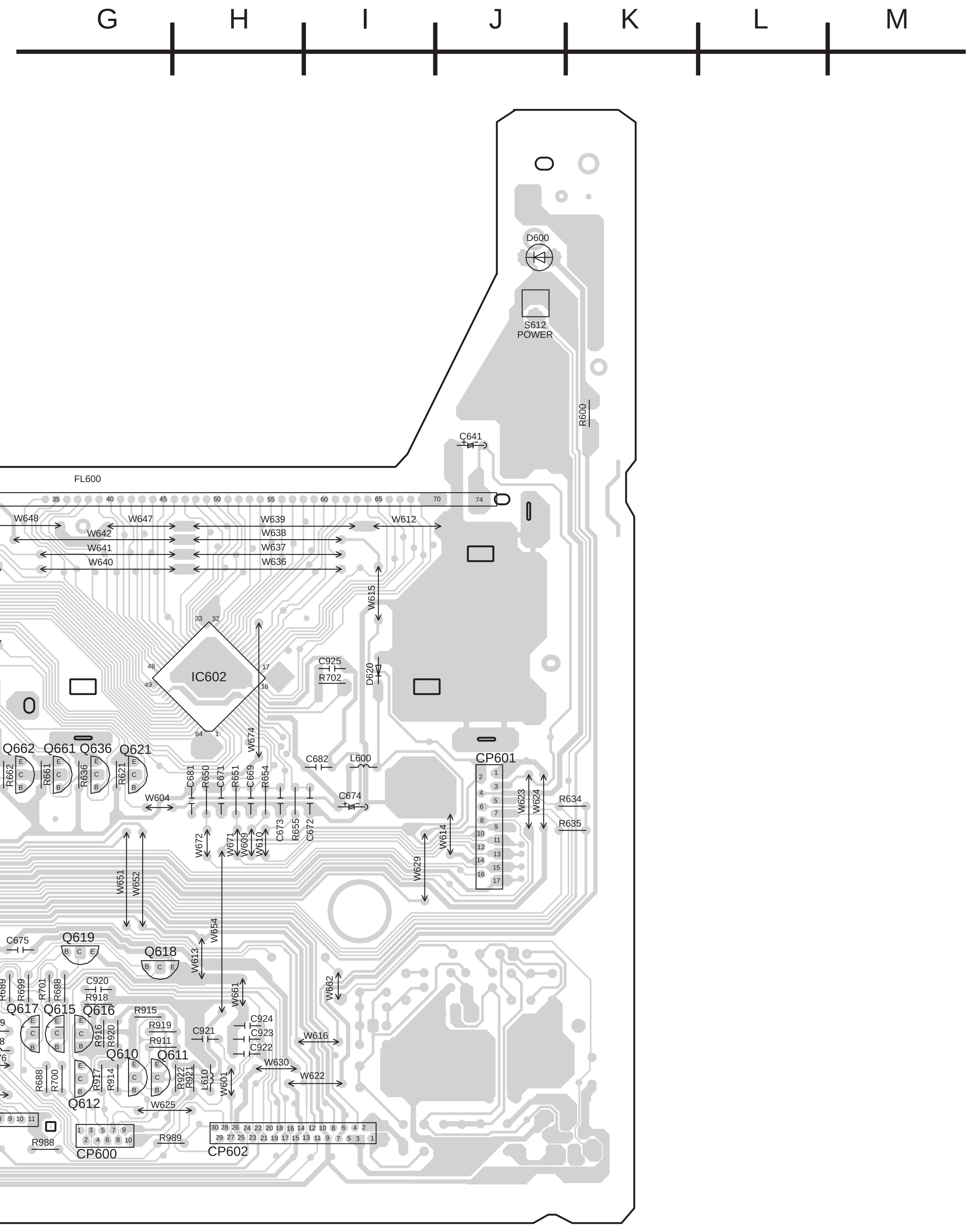
R989
PbF
HEADPHONE


G
H
I
J
K
L
M
D600
S612
POWER
R600
C641
FL600
W648
W647
W639
W612
W642
W638
W641
W637
W640
W636
W615
IC602
C925
R702
D620
W674
Q662
Q661
Q636
Q621
R662
R661
R636
R621
W604
C681
R650
C671
R651
C669
R654
C682
L600
C674
CP601
W623
W624
R634
R635
C673
R655
C672
W672
W671
W609
W610
W614
W629
W651
W652
W654
C675
Q619
Q618
W613
C920
R918
R699
R701
R698
W662
W661
Q617
Q615
Q616
R915
R919
R911
C921
C924
C923
C922
W616
R916
R920
Q610
Q611
W630
W622
R688
R700
R917
R914
R922
R921
L610
W601
Q612
W625
CP600
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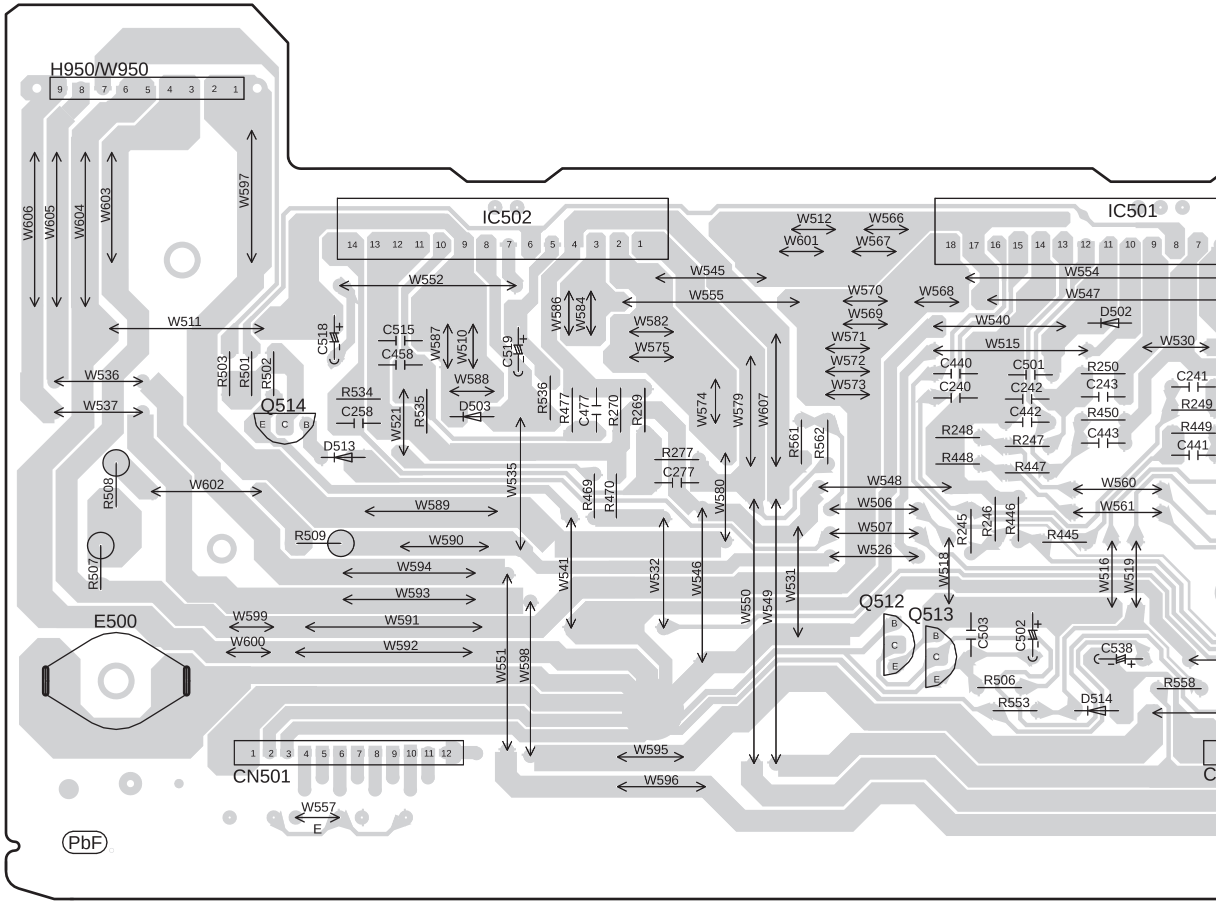
R989
CP602

A B C D E F G

1 2 3 4 5 6 7 8 9

I POWER (1) P.C.B(REPX0427B)



H950/W950
9 8 7 6 5 4 3 2 1
W606
W605
W604
W603
W597
IC502
14 13 12 11 10 9 8 7 6 5 4 3 2 1
W512
W566
W601
W567
IC501
18 17 16 15 14 13 12 11 10 9 8 7
W545
W554
W552
W555
W570
W568
W547
W586
W584
W569
D502
W511
C518
C515
W587
W510
C519
W582
W571
W540
W575
W515
W530
C458
W572
C440
C501
R250
R503
R501
R502
W536
W588
W573
C243
C241
C240
C242
R534
W574
W579
W607
W537
Q514
E C B
D503
R536
R477
C477
R270
R269
R249
C258
W521
R535
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C442
R449
R248
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R562
C443
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R277
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R447
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W507
R245
R246
R446
R509
R445
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W594
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W546
W518
W516
W519
R507
W593
W550
W549
W531
Q512
E500
W599
W591
Q513
B C E
C503
C502
W600
W592
W551
W598
C538
R506
R558
R553
D514
1 2 3 4 5 6 7 8 9 10 11 12
CN501
W595
W596
W557
E
PbF